

SEQUENCE PROTOCOL

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<120> Detection of Differential Gene Expressions

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<140> 100 04 102.7-41

<141> 2000-01-31

<160> 885

<170> PatentIn Ver. 2.1

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<212> DNA
<213> Homo sapiens

<400> 27
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tatgcaagtc caaaaaatga aggtatgttt aactgccaca ttcactcgaa gccattcat 180
ctccttcagc atcccaatga agtacacgat ctgcttagct aaataaggtg gcacacgcgc 240
tgcaccgctg acatcacagg acagttgcct ataaaactag acttctgacc gcagggctcc 300
agcttcactt tctcacaggt catcatcctc atctnngggag agcagtcgtc tggagcaacc 360
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n 421

<210> 28
<211> 426
<212> DNA
<213> Homo sapiens

<400> 28
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attcctggaa acagttgata ccgagctggc tgctagtggg gcgaccttac ccaagtttga 180
taaagatcat gatgtaatgt tatttttgaa gatgtatgat cccaaaacgc ggactttgaa 240
ttactgtggg catatctaca caccaatatc ctgtaaaata cgtgacttgc tcccagttat 300
gtgtgacaga gcaggattta ttcaagatac tagcctttat cctctatgga ggaagttaaa 360
ccgaatttaa cagagagaat tccaggacta tgacgtgtct ccttgataaa gcccttctgat 420
gaacta 426

<210> 29
<211> 558
<212> DNA
<213> Homo sapiens

<400> 29
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ggaaagcagc	ggacttgaaa	atactggaaa	tctgtccgga	tccaaattat	tttgcaagcc	120
agatgagtaa	ccagagggca	tgaaagggtg	agaacatttg	acttccctgc	aaaccttggt	180
atagatcact	tccttttctg	taggaaagga	aaggcaccac	agagcacaat	gagtacaaga	240
aagcgtcgtg	gtggagcaat	aaattctaga	caagctcaga	agcgaactcg	ggaagcaacc	300
tccacccccg	agatctcctt	ggaagcagaa	cccatagaac	tcgtggaaac	tgctggagat	360
gaaattgtgg	acctcacttg	tgaatcttta	gagcctgtgg	tggttgatct	gactcacaat	420
gactctgttg	tgattgttga	cgaaagaaga	agaccaagga	ggaatgctag	gaggctgccc	480
caggaccatg	ctgacagctg	tgtggtgagc	agtgcagatg	aggagtctgc	cagggacaga	540
gacgtatatg	tgactacc					558

<210> 30
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 30						
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tttctttact	taaactctga	aaacaacaga	aactttgtct	tcctactctt	acattctaaa	180
ccgatgaaat	ctttaacaga	ttacacttta	aatatctact	catcattttc	tctctcagag	240
tcctagcttg	agttgcactg	catgtatcnt	gtgcactctg	ttctcttcac	ttaatgctgt	300
actgtttctg	tgagctctga	gggactatct	tgagagatgt	aatggaagga	aagcgtgggtg	360
ttaatctgcg	tactgcttaa	gacagtantt	ccataatcaa	tgatgggttc	atagagaaac	420
taagtccat	gaacctgacc	tccttttatgg	ctaatacgac	taagcaagaa	tngaggg	477

<210> 31
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 31						
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ccgatatggc	tgagatcgag	aaattcgata	agtcgaagtt	gaagaaaaca	gaaacgcaag	120
agaaaaatcc	tctgccttca	aaagaaacaa	ttgaacaaga	gaagcaagct	ggcgaatcgt	180
aatgagggcg	gcgcgccaat	atgcactgta	cattccacga	gcattgcctt	cttattttac	240
ttctttttag	tgtttaactt	tgtaagatgc	aaagaggttg	gatcaagttt	aaatcgactg	300
tgctgcctct	ttcacatcaa	agaatcagaa	ctactgagca	ggaaggcctc	ccctgcctct	360
cccacccatc	tgatgggtctg	gctagcgagag	agggaaaaga	acttgcatgt	tggtgaagga	420
aaaagctggg	tgggagatga	tgaatngaga	ggaaaatttc	aagatgggtc	aagatgtcct	480
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taattattgg						550

<210> 32
 <211> 623
 <212> DNA
 <213> Homo sapiens

<400> 32						
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caganccagg	cccaaagcat	ctgggttgga	tgctgcattc	tggtgtgatg	ggtgcagttg	180
tggctcctct	gacgatctta	ggggggcctc	ttctcctgag	agccgcatgg	tacaccgctg	240
gtattgtggg	aggcctctct	actgtggcca	tgtgtgcgcc	tagtgagaag	tttctcgaac	300
atgggagcac	ccctgggagt	gggcctgggt	cctgtctttt	gcgtcttctc	tggggctctat	360
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aataacaccc	atgtatggag	ctccaaagta	tgatcccatc	aatttccgatg	ttganatcta	540
catngataca	attaatatat	ttatgcgagt	tgcantaatg	ctagcaactt	gaagcaacag	600
aaagaatgaa	gtaccgcttt	tta				623

<210> 33
 <211> 464
 <212> DNA
 <213> Homo sapiens

<400> 33
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gatgtctaga aattaattat gtttaagttta atttaatttg aggaggggtga cgggcgggtg 120
gtgcgtactt cattgctcaa ttcaatttaag ctctctattc ttaattttact actaaatcct 180
ccttagtcct ttagtttcat aaagggtata gtaatgttct tttataagaa aatgtagccc 240
atttcttccc atttcattgg ctacacottg acctaacgtt tttatgtttg attccttttg 300
ttactttaat accttttttag ggtttgctga agatggcggg atataggctg aattagcaag 360
agatgggtgag gtagagcggg gtttatccga ttatagaaca ggctcctcta gatggatata 420
aagtaccgcc aagtcctttg aagtttttaag cnatggctag tagt 464

<210> 34
<211> 308
<212> DNA
<213> Homo sapiens

<400> 34
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ctcggcagac tgggagggag caggcgctcg cggaanaccg tcactttactg ggttttgttca 120
cctgttttcca gcaagttttg gtctttttggg cagaagcctg ttgaccaact gtgggccacc 180
acagtcttgc acagaaaggt ggcaccogga gtgggtttgtg gccctcacta ccaaagccac 240
gggaagccca atttccagta ggattgcccg ttttgaattc ttttcccaaa agcnaaatng 300
agtttnac 308

<210> 35
<211> 435
<212> DNA
<213> Homo sapiens

<400> 35
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cttcaaagta tgccagagaa tacaatccaa ttcactgcta caattcatag aattngtcag 180
tgttttcttg agacgctgag gtacactgtt ggcagtttcc aagtggccgc atgtgctgct 240
cagaaaggcc agcgnagacn agctgcccgg aagaactttc actgctggaa aactgctccg 300
ctcccaagga aagcccaagg aaggctgggc cgtgggctca caacttcac ctttctccag 360
ggtcatccag ctccacgtca cttgaggtca atgtcgtcnt ccacaggga gctcaccatc 420
ctttgcccac ccagg 435

<210> 36
<211> 505
<212> DNA
<213> Homo sapiens

<400> 36
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tgacaacatt aatatacttt aaatacctgg gatgtggtct ggtacatata tgggtgatgc 120
tgtgtgtgta ttatatatac tactatatta tgaacacctg agtcatggaa gtccttgcaa 180
agtgtgcctt aaaatcctca acctttttta cttttctcat acatcgaagt cagtattctt 240
atgaaggccc ccatattgaa aaaagtcacc ttgtcctgag aggttgtagc catcatcatt 300
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caaaaataaac tgctgggcac gcgtt 505

<210> 37
<211> 451
<212> DNA
<213> Homo sapiens

<400> 37
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acacaacatt ttctgggatt ataaatatat tataacagta ttatacaaat ttttacaata 120
tgttttttatc aggttaggta attttcacaa aagtgtcaag agaacaaaat aaaggggaga 180
aaagatctat tgttcacaaa agccagttgg ctttttgcac gaatgcacac cattttaata 240

aaagtattcc taaaagcatg atccgacact catacaacac aacaaaaaag acagctttac 300
taggtcacat tataaactca actggcatct acacaagaca gtatcccat agtttcagtg 360
gaatttgaga taacttgrgt gaactagaaa taaggtagat gaagagttgt ccaattcttc 420
naaaatctgg aatttttttt cacactccaa n 451

<210> 38
<211> 245
<212> DNA
<213> Homo sapiens

<400> 38
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ggattctaag gcttttctag cgtgaccctt ttcagtagtg ctagtccctt ttttacttga 120
tcttaattggc aagaaggcca caaaggtagt tttccttttt tagctcagga aatatgtcag 180
gctcaaacca cttctcagggc agtttaattgg acactagtcc attgttacat gaagtgatag 240
atagc 245

<210> 39
<211> 403
<212> DNA
<213> Homo sapiens

<400> 39
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tttattgcag gtgctgatat caacatgtta gccgcttgca agacccttca agaagtaaca 180
cagctatcac aagaagcaca gagaatagtt gagaaacttg aaaagtccac aaagcctatt 240
gtggctgcca tcaatggatc ctgctgggga ggaggacttg aggttgccat ttcattgccc 300
tacagaatag caacaaaaga cagaaaaaca gtattaggtta ccctgaagtt ttgctggggg 360
ccttaccagg agcaggaggc acacaaaagg ctgccccaaa tgg 403

<210> 40
<211> 527
<212> DNA
<213> Homo sapiens

<400> 40
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tggggacatg gaagagtgag cctggtcagg tgaaagcagc cattaaacat gcccttagcg 120
caggctaccg ccacattgat tgtgcttctg tatatggcaa tgaaactgag attggggagg 180
ccctgaagga gagtgtgggg tcaggcaagg cagtcctctg agaggagctg tttgtgacat 240
ccaagctgtg gaataactaag caccaccctg aggatgtaga acctgccctc cggaagacac 300
tggctgatct gcaactggag tatttggacc tctatttgat gcaactggccc ttaatgcctt 360
tgaaagccggg gagacaatcc ccttttccca agaaatgccg aatggggaact gtcagatatg 420
actccaactc actattaaag agacctggaa ggctcttgga agtactggtg gcnaaaagggg 480
ctggtgaaag ccctgggcnt tgtccaactt tcaacagtcg gcaagat 527

<210> 41
<211> 449
<212> DNA
<213> Homo sapiens

<400> 41
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agagagatgc aggaagttag aaccaacttg caagaagtgt tttttgatta tcttcatgcg 120
acanctatca aaatactgca cttggacgga caattctggg accaactgaa aatatcaaat 180
ctataaatcg taaggaccta gtggattaca taaccacaca ctacaaggga ccaagaattg 240
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ttggtgactc tttgtgctca cacaaaggga gctataccag ctctgcctcc ctggcaagtt 360
cactggaagt gaagattcgg ggtgaaggga tgaccaggat gcccnttggg gaaccttggc 420
aataactggt ttganccaat ttggttggg 449

<210> 42

<211> 411
<212> DNA
<213> Homo sapiens

<400> 42
tcttcctggc caatgcgtct cggggcgcgt cagagcagtt catcaacctg cgagaggtca 60
gcacccgctt cgccttgcca cccggggagt atgtggtggt gccctccacc ttcgagccca 120
acaaggaggg cgacgttcgt gctgcgcttc attotcagag aagagtgtgt ggactgtgga 180
gctggatgac cagatccagg ccaatctccc cgatgagcaa gtgctctcag aagaggagat 240
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gaaggagtgt cggacaatcc tcaataggat catcagcaaa cacaagacc tgcggacca 360
gggcttcagc taagagtctg gccgcagcat ggggtgaacct catggatcgt t 411

<210> 43
<211> 455
<212> DNA
<213> Homo sapiens

<400> 43
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cagctcactt ctgcacaatt gagatacatt tgaagagtag tctgtttgca atctgtcata 120
ttttaatcca caaacaagga gaactcccta aattgaactt gtctaaatcc agctttcctc 180
aacctccttc ctaagactta gacaaattag tcattgagag catctcctga ttaaatgttc 240
cctagaagca gagccatcaa cagagctggt gtcacctgaa caagaatggg aggttccaaa 300
gggaataactt ttcgagcttca tgcaaaagtct aactcaggag ggaacaggcc tccctcctgg 360
ctgaagagat gctccttatc ctggacagca atcagctggc tctccttaag aaatgggtgg 420
gtcaaagggc nacatgagct catgaaatgt tcagt 455

<210> 44
<211> 312
<212> DNA
<213> Homo sapiens

<400> 44
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caaagtgggc ggcaggtctg aggacactaa actgattaag ggcgtgattg tggacaagga 120
tttcagtcac ccacagatgc caaaaaaagt ggaagatgcg aagattgcaa ttctcacatg 180
tccatttgaa ccacccaaac caaaaacaaa gcataagctg gatgtgacct ctgtcgaaga 240
ttataaagcc cttcagaaat accgaaaagg agaaatttga agagatgatt caacaaatta 300
aagagactgg tt 312

<210> 45
<211> 600
<212> DNA
<213> Homo sapiens

<400> 45
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gctgtatttc caaaatgtcg ctttctaaca agctgacgct ggacaagctg gacgttaaaag 120
ggaagcgggt cgttatgaga gtcgacttca atgttcctat gaagaacaac cagataacaa 180
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ctgggaacaa ggttaaagcc gagccagcca aaatagaagc tttccgagct tcactttcca 540
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<210> 46
<211> 598
<212> DNA
<213> Homo sapiens

<400> 46

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catcattcan	agggacctta	aaccggaaaa	cattttgtta	aatgaagata	tgcacatcca	180
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tgccacanag	cggttaggct	gtgaggaaat	ggnaggatac	ggacctctta	aagcacnccc	540
gtnccttcgag	tccgtcacgt	gggaganctg	caccagcgac	gcctccgaag	ctcaccgt	598

<210> 47
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 47	aaattcagaa	aggagtattt	gaggtgaaat	ccacaaatgg	ggataccttc	ttaggtgggg	60
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	ctgng						485

<210> 48
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 48	aaagaaatga	attgcagcag	actattaata	aattaaccaa	ggaccctgga	agctgaacaa	60
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	tagcagagta	tcacaaattg	gctagaaaaa	taaaacttat	tccctaaagg	tgctgagaat	180
	tccaaagggt	atgactttga	aattaagttt	aatccccgag	gctgggtgca	cttgctttgt	240
	caaatacagg	gcncaaagntt	tatgtacccc	cttaaggaaac	ncccgaaatgg	aaa	293

<210> 49
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 49	ggcacagaat	caaaagtctt	tgtgggaatt	ttaaataata	aacttgaaat	gtatccacca	60
	ctcaatcaaa	cgttatctca	agaagtagtg	aacacacagc	ttgcttttga	acgtcagaaa	120
	actgcagaga	aagagcgatt	atctcttgta	tatgctaagc	agtgggtggag	agaatatattg	180
	caaattcgac	cctcacacaa	ctcacgactg	gttaagattt	ttgcacagga	tgaaaatggg	240
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	ccaaggcaag	cagcaagatt	tgttaatgtc	cttggttatg	aacgagcccc	tgttatttga	360
	ggaggaggta	aacaggagca	gtgggtgcact	ctgctggcct	ttctctgtag	aaacaagggt	420
	gactgtgaag	atcacgctaa	ccttctgtgc	agccttcttc	ttggatatcg	attagaagcc	480
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<210> 50
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 50	ccaagccatc	caaaatcccc	aagcccccca	agccccctaa	gcccccaagg	cccccaaaa	60
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agcgcgccc	gaagggcaag	gccacaaaga	gtgtccctgag	tgtgcccac	aaagatgtgg	240
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gggccttgca	gaacttcaag	gaggacaagc	ccaagctcgt	gcgggatgag	tatgagtaag	540
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<210> 51
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 51						
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agcgaaggac	gggagccgga	ccctggggccc	cgtggaactc	cagcctgcgc	caccacgtca	120
cgcacacgct	cggcgctgcg	atccgcgcac	ataacgatat	ttggatttga	cctgcatttt	180
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cctatcagca	gtatcctggg	gaataaatat	ggaagtcgta	tagtcatgat	tgttgggtggc	480
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<210> 52
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 52						
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cgtgggcnca	tgagcagctc	gggactgaat	tcggagaagg	tagctgctct	gatacagaaa	120
ctgaattccg	acccccagtt	cgtacttgcc	cagaatgtcg	ggaccaccca	cgacctgctg	180
gacatctgtc	tgaagcgggc	cacgggtgcg	cgcgcgana	tgggtgttcca	gcacgccgtg	240
ccccaggagg	gaaagccaat	caccaaccag	aagagctcag	ggcgatgctg	gatcttttct	300
tgtctgaatg	ttatgaggct	tccattcatg	aaaaagttaa	atattgaa		348

<210> 53
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 53						
ggcggcgncg	gcggcgtant	angnagggtg	cacagagaac	acccttagca	tgaacagtgt	60
gaggattcca	ccagcttttt	caccatgaag	gagacagacc	gggagccgtt	gcgacanagg	120
tgcaaaagggt	tgctgggatg	ctccagcgcc	cggaccagct	ggacaagggt	gagcagtatc	180
gcaggagaga	agcgcggaag	aaggcctccg	tggacangaa	tttgaagaga	gcggatctga	240
aagctcaggt	gcccagattct	gtcctgtggg	tcagccgtcc	tggggccaag	ttgtgggtgct	300
ggctgaacag	caggaactcc	cccgcgccaa	agccagttga	agttcctgac	cgttc	355

<210> 54
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 54						
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ggccactgga	gcagaggtgg	tggatctgct	ggtggccatg	tgtagggcag	cttttagagt	120
ccctagaaaag	agcatcatct	ttgagcctta	tcctctctgt	gtggaccca	ctgatcccaa	180
gactctggcc	tttaacccta	agaagaagaa	ttatgaagcg	gcttcagaaa	gctctgggat	240
agtgtgatgt	ctattccggg	agatgaccca	gggctcataa	tttggaatc	aagaaacaga	300
tggacaaaagt	ttggatcccc	ctggggcccat				330

<210> 55
<211> 451
<212> DNA
<213> Homo sapiens

<400> 55
tcngacagaa aagctgtacg ttatatgttg gaaatctttc tttttacaca actgaagaac 60
aaatctatga actcttcagc aaaagtgggtg acataaagaa aatcattatg ggtctggata 120
aaatgaagaa aacagcatgt ggattctgtt ttgtggaata ttactcacgc gcagatgcgg 180
aaaacgccat gcggtacata aatgggacgc gtctggatga ccgaatcatt cgcacagact 240
gggacgcagg ctttaaggag ggcaggcaat acggccgtgg ngaatctggg ggccagggtc 300
cgggatgaag tatccggcag gactaccgat gctgggaaga ggaggctaag gggaaaactg 360
gcacagaacc agtgagtggg tgagagctct gtcagtgcac aacactcctt tggcctgttt 420
gaatttgctg aagaacatca cctaaagtcg g 451

<210> 56
<211> 355
<212> DNA
<213> Homo sapiens

<400> 56
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aaccacaaggc actttgtgga ctacacaccac cagaagcctg ttaatgctat catcgagcat 120
gtgcgggacg gcagtgtggg cagggccctg ctctcccag attactacct ggttacagtc 180
atgctgtcag gcatcaagtg cccaactttt cgacgggaag cagatggcag tgaaaactcca 240
gagccttttg ctgcagaagc caaatttttc actgagtgcg gactgcttca gagagatgtt 300
cagatcattc tggagagctg ccacaaccag aacattctgg gtaccatcct tcac 355

<210> 57
<211> 468
<212> DNA
<213> Homo sapiens

<400> 57
ttgttctgga ttcccgtcgt aacttaaagg gaaattttca caatgtccgg agcccttgat 60
gtccttgcaaa tgaaggagga ggatgtcctt aagttccttg cagcaggaac ccacttaggt 120
ggcaccaatc ttgacttoca gatggaacag tacatctata aaaggaaaag tgatggcatc 180
tatatcataa atctcaagag gacctgggag aagcttctgc tggcagctcg tgcaattgtt 240
gccattgaaa accctgctga tgtcagtgtt atatcctcca ggaatactgg ccagaggggt 300
gtgctgaagt ttgctgtcgc cactggagcc actccaattg ctggccgctt cactcctgga 360
acccttacta accagatcca ggcagccttc cgggagccac ggcttcttgt gggtactgac 420
ccagggctga ccacagctct caaggggcat cttatgttac ctacctac 468

<210> 58
<211> 394
<212> DNA
<213> Homo sapiens

<400> 58
acagtgtgcc ttcagccoga ggactcggac tgggtcaga ctccggttct ttgtttcctg 60
gaaggtggca cggggactca ggcggccagg gtcgagggcc aggtccaagg tcacagagct 120
ttggaggtca cctgtaggcg gtcgcaggga cggcgttgag acaggaactc cttgggtgga 180
caatgagcag ggtgggagac aggggcctgg gatgggggac tccagaggtc aggggtgtct 240
gggttggaag ggaggggact caccgctccc aagcaggttc ttagaacgtt tgtcaatgta 300
aaggcagatg ttggactgta ccagggtctg ctacagagac acctgctccc gacactcaaa 360
cgcagacctg gggatctcgg caggtatgaa ctgc 394

<210> 59
<211> 296
<212> DNA
<213> Homo sapiens

<400> 59
gccaggcgta ctgacaggtg gaccagcgga ctggtggaga tggcgacgct ctctctgacc 60

gtgaattcag	gagaccctcc	gctaggagct	ttgctggcag	tagaacacgt	gaaagacgat	120
gtcagcattt	ccgttgaaga	agggaaagag	aatattcttc	atgtttctga	aaatgtgata	180
ttcacagatg	tgaattctat	acttcgctac	ttggctagag	ttgcaactac	agctggggta	240
tatggctcta	atctgatgga	ccatacttta	gattgatcac	ttggttgga	ggttta	296

<210> 60
 <211> 426
 <212> DNA
 <213> Homo sapiens

<400> 60						
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agggagaccc	ccgcgcccc	ccggtgtgag	gcgccctcac	agggccgggt	gggctggcga	120
gcgacgcgcg	cgcaggaggc	tgtgaggagt	gtgtggaaca	ggacccggga	cagaggaacc	180
atggctccgc	agaacctgag	caccttttgc	ctgttgctgc	tatacctcat	cgggcggtg	240
attgcccggac	gagatttcta	taagatctta	ggggtgcctc	gaagtgcctc	tataaaggat	300
attaaaaagg	cctataggaa	actagccctg	cagcttcctc	ccgacccgga	ccctgatgat	360
ccacaagccc	aggagaaatt	ccaggatctg	ggtgctgctt	atgaggttct	gtcagatagt	420
gagaac						426

<210> 61
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 61						
cgcttccctgt	acaaggggcga	ggggctgaac	aagatcagcc	atcggggact	acctggggga	60
gaggggaagaa	ctgaacctgg	cagtgtctca	tgtttttgtg	gatctgcatg	agttcaccga	120
cctcaatctg	gtgcaggccc	tcaggcagtt	tctatggagc	tttcgcctac	ccggagaggc	180
ccagaaaatt	gaccgggatga	tggaggcctt	cgcccagcga	tactgcctgt	gcaaccctgg	240
ggttttccag	tccacagaca	cgtgctatgt	gctgtccttc	gccgtcatca	tgctcaacac	300
cagtctccac	aatcccaatg	tcggggacaa	gcccggcctg	gagcgctttg	tgggccatgaa	360
ccggggcatc	aacgagggcg	gggaacctgc	tgaggagctg	ctcaggaacc	tgtacgacag	420
catccgaaat	gagcccttca	agattccctga	ggatgacggg	a		461

<210> 62
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 62						
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gacttgcatg	ggtatttaga	gatgctgaag	aactgccctt	tgatgatgac	aagtttgata	120
tttacaccat	tgcttttggg	atccggaatg	tcacacacat	tgatcaggca	ctccaggaag	180
ctcatcgggg	gctgaaacca	ggaggacggg	ttctctgtct	ggaatttagc	caagtgaaca	240
atccctcat	atccaggctt	tatgatctat	atagcttcca	ggatcatcct	gtcctgggag	300
aggatcatcg	tgagagactg	aagcctatca	gtaccttgta	gagagtatcc	gaagtttccg	360
tctcaggaag	agttcaagga	catgatagaa	gatgcaggct	ttcacaagg	gacttacgaa	420
ag						422

<210> 63
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 63						
agaagttagag	cagaagaaga	agcggacctt	ccgcaagtcc	acctaccgcg	gcgtggacct	60
cgaccagctg	ctggacatgt	cctacgagca	gctgatgcag	ctgtacagtg	cgcgccaggc	120
ggcggctgaa	ccggggcctg	cggcggaagc	agcactccct	gctgaagcgc	ctgcgcaagg	180
ccaagaagga	ggcgccgccc	atggagaagc	cggaagtggg	gaagacgcac	cttcgggaca	240
tgatcatcct	acctgagatg	gtgggcagca	tgggtggcgt			280

<210> 64

<211> 408
<212> DNA
<213> Homo sapiens

<400> 64
ctgggagatg aaacagagga agaagaaaca aagcccattg agctccctgt caaagaggaa 60
gaaccccctg aaaaaactgt tgatgtggca gcagagaaga aagtgggtgaa aattacatct 120
gaaataccac agactgagag aatgcagaag agggctgaac gattcantgt acctntgagc 180
ttggagagta agaaaactgt tcgggcagct aggtttggga tttcttcagt tccaacaaaa 240
ggtctgtcat ctgataacaa acctatgggt aacttgggat aagctgaagg aaagagctcc 300
aaagatttgg tttgaatgtc tcttcaatct ccagaaagtc ttgaagatga tgaggaaact 360
gaaaaagagg gaaggagcga tttggggatt gtcacaagtt cagctgga 408

<210> 65
<211> 463
<212> DNA
<213> Homo sapiens

<400> 65
agccgctggg gcgaggacgg cgcgaggctg ctgctgctgc ccccgcccg cgcggtgga 60
aacggagagg ccgagccaag cggcgccccc tcttatgctg ggaggatgct ggagagtagc 120
ggctgcaaaag gctgaaggag ggctgctgctg agaagcgag acnggggtgt tgcagctctg 180
gaagaaaaag tgttgcatcc tcaccgagga agggctgctg cttatcccg ccaagcagct 240
gcaacaccag cagcagcagc aacagcagca gcagcagcag caacaacagc ccgggcaggg 300
gcccggccgag ccgtcccaac ccagtggccc cgctgtcgcc agcctcgagc cgccggtcaa 360
gotcaaggaa ctgcacttct ccaacatgaa gaccgtggac tgtgtggagc gcaagggcaa 420
gtacatgtac ttcactgtgg tgatggcaga gggcaaggag atc 463

<210> 66
<211> 512
<212> DNA
<213> Homo sapiens

<400> 66
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cgacaactcc ggaccacggc cgccaccgaa gctgcttctg ctgccgctac tgctgttctc 120
gctgcccggct ggagctgtgc agggctggga gacagaggag agggcccgga ctgcggaaga 180
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cgccgaccac tccctgcacc taagcaaaagc gaagatttcc aagccagcgc cctactggga 300
aggaacagct gtgatcgatg gagaatttaa ggagctgaag ttaactgatt atcgtgggaa 360
atacttgggt ttcttcttct acccaattga tttcacattt gtgtgtccaa ctgaaattat 420
cgcttttggc gacagacttg aagaattcag atctataaat actgaagtgg tagcatgctc 480
tgttgattca cagtttacct atttggctgg ga 512

<210> 67
<211> 367
<212> DNA
<213> Homo sapiens

<400> 67
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cgaagaatgc gactcttggc ggacagcgca gtggncaggg ctccggcctg tgcctcttag 120
gagcggagcc gtttgcgtgt gctggagggg ggcgacactg gcgctgtgct ccgctgtggc 180
cctagccccc gtgggcttct caagcagccc ttggacatga gtgaggtgtt tgccttccac 240
ctagacagga tccctggggt caacaggacc ctgcccgtctg tgagcaggaa agcagagttc 300
atccaagatg gccgnccatg ccccatcatt ctttgggatg catctttatc ttcagcaagt 360
aatgaca 367

<210> 68
<211> 402
<212> DNA
<213> Homo sapiens

<400> 68

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gtatgaaaca	gaatttcac	cagggtactac	ttcctttgga	atgtcagtat	ttaatctgag	120
caatgcgatt	gtgggcagtg	gaatccttgg	gctttcttat	gccatggcta	atactgggat	180
tgtctttttt	ataattctct	tgacatttgt	gtcaatat	tccctgtatt	ctgttcac	240
ccttttgaag	actgccaatg	aaggagggtc	tttattatat	gaacaattgg	gatataaggc	300
atgttgatta	gttggaagc	ttgcagcatc	tggatcaatt	acaatgcaga	acattggagc	360
tatgtcaagc	tacctcttca	tagtgaaata	tgagttgcct	tt		402

<210> 69
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 69						
gcgcgctg	gcacgttnca	gggctgaagc	ggcgcgcg	gtggggngctg	cacgtagccc	60
ggcgctcg	atggctctcc	tgggtgctcg	tctggtgagc	tgtacctct	ttctggcagt	120
gaatggctg	tattcctcta	gtgatgatgt	gatcgaatta	actccatcaa	atctcaaccg	180
agaagtatt	cagagtgata	gtttgtggct	tgtagaattc	tatgctccat	gggtgtgtca	240
ctgtcaaaga	ttaacaccag	aatggaagaa	agcagcaact	gcattaaaag	atgttgtcaa	300
agttggtgca	gttgatgcag	ataagcatca	ttccctagga	ggtcagtatg	gtgttcaggg	360
atctcctacc	attaagattt	ttggatccaa	caaaaacaga	ccagaagatt	accaaggtgg	420
cagaactggg	gaagccattg	tagatgctgc	gctgagtgct	ctgcgccant	cgtgaaggat	480
cgctcggggg	acgaagcgga	ggatacagtt	ctggaaaaca	aggcagaagt	gatagttcaa	540
gtaag						545

<210> 70
 <211> 359
 <212> DNA
 <213> Homo sapiens

<400> 70						
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atcaatgatg	acctgtccta	ccagatggac	tgccacgccc	tgnagtgcga	gagcaagctc	120
gaggccaaga	aactggccca	cgccatgatg	gaggccttca	ggaagacttt	ccacagtatg	180
aagagcgacg	ggcggtatcca	cagcaaacgc	tcctccgaag	aggtttccca	ggaattggaa	240
tccgatgatg	gctgaatgaa	ctttnagacg	cttnagcaaa	ggcagcattg	gtcacggggg	300
tcaagggaat	tagattgagt	aagcaacggt	tcaaatttgg	gatgaaagat	ttccaaatt	359

<210> 71
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 71						
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aagtaccttt	gggagtcacc	ttctctggct	attaaaccat	ggatgaactc	tggtggattt	120
cctgttcggg	ttccttatcc	atgcacccag	accgaattgg	ccatgattgg	agaagaggaa	180
tgtntccttg	gtctgactga	cagggtgtcgc	tttttcatca	atgacattga	ggttgctgca	240
aatatcacgt	catttgcagt	atatgatgag	tttttattgt	tgacaaccca	ttcccatacc	300
tgccantggt	tttgctgag	ggatgcttca	tttaaaacat	tacaggccgg	cctgagcagc	360
aattcatgtg	tcccatgggg	aagtttctgc	gg			392

<210> 72
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 72						
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cgcagatacc	cacgtaagan	atgtatctnc	tgcttcttgc	ttggcttgc	tttggcagtc	120
actgccactg	gccttgnctt	tggcacatgg	aagcatgcac	ggcgatatgg	aggcatctat	180
gcagcctggg	catttntcat	cctgttggct	gtgctgtgtt	tgggcccggc	tctttattgg	240
gcctgtatga	aggtoagcca	cctgttcag	aacttctcct	gagcctgatg	accacagac	300
tgtgctgggn	ccctccctgg	tggggacagt	gacactacga	aggg		344

<210> 73
<211> 311
<212> DNA
<213> Homo sapiens

<400> 73
gtgggatggg gtgcccttca tcctgcgctg cggcaaggcc ctgaacgagc gcaaggccga 60
ggtgaggctg cagttccatg atgtggccgg cgacatcttc caccagcagt gcaaggcga 120
cgagctggtn atccgctggc agcccaacga ggccgtgtac accaagatga tgaccaagaa 180
gccgggcatg ttcttcaacc ccgaggagtc ggagctggac ctgacctacg gcaacagata 240
caagaacgtg aagctccctg acgcctatga gcgcctcatc ctggacgtct tctgcgggac 300
cagatgcact t 311

<210> 74
<211> 176
<212> DNA
<213> Homo sapiens

<400> 74
ctgttccttg gaaatgtttg atgctactct gaaagatcga gaactgagct ttcagtcggc 60
tccaggtact accatgtttc tgcattggct agtgggaatg gtatatgtnt tctacttttg 120
ctccttcatt ctactactga gagaggct tngacctggg gtctctgtgg ttctaa 176

<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

<400> 75
ccaagattgg ttccagcgcc agtacctgtc aactccagat agtcagcttc tgcgctgtga 60
cctcattcgc tacatctgtg gggtagtcca nctttctaat gaagtactga gttcagatat 120
cttgccccgg tgggccatca ttggttggtc cctgacaacg tgcacgtcaa atgtcgctgc 180
ctccaatgcc aagctgggct tgttttatga ctggctgttc tttagtcagg acaaggatag 240
cattatgaac atagaaccag ccacctctgg catgca 276

<210> 76
<211> 310
<212> DNA
<213> Homo sapiens

<400> 76
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tcctacagac tttcttcttt gggatagcgt ctctcaccat cttgattgct taaaaacgga 180
agcgccaaaa acaaaactga agttgtctga aagcttgctc tacactttta cattcatcct 240
cacccttttt tttgtggggg agaggagggt gcagtanttt actcagtgat ctttctactt 300
tctagaaact 310

<210> 77
<211> 295
<212> DNA
<213> Homo sapiens

<400> 77
cctcactgct atggggccga acaagaagaa gaagcgagat ggtgacgacc ggccggccgag 60
gctcgttctt agcttcgacg aggagaagag gcgggagtag ctgacaggct tccacaagcg 120
gaaggctcag cgaaagaagg cagccattga ggagattaag cagcggctga aagaggagca 180
gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240
ggctctnagag gaggcagatg agctggaccg gttggtgaca gcaaagacgg agtcg 295

<210> 78
<211> 406
<212> DNA
<213> Homo sapiens

<400> 78
caaaaaagctg gtngcctcca gacccgactt tttcaaccag gagcaccaga cacgggatgt 60
ggactgtgtc ctcacaacag gagaagtgtt caggttgctg gnggnagagg gggctcgggg 120
ggctaacttg agcacgtgtt ccggcacgcg gcccagagagc tctttggaat ccatgtggct 180
gaggttaoct acaaacccct gaggaacaaa gacttccagg aggtgacact ngagaaggag 240
ggccagggtg tgctgcactt cgcaatggcg tacggcttcc gcaacatcca gaacctgggt 300
cagaggctca aacgagggcg ctgcccctac cactacgtgn aggtcatggc ctgcccctca 360
ggctgcctga acggcggggg gccagctcca ggtcccagac aaggcc 406

<210> 79
<211> 288
<212> DNA
<213> Homo sapiens

<400> 79
aagaaggaga ggaaggagaa gagacggcag agganggggg aagagtgcag cctgcctggc 60
ctcacttgct tcacgcatga caacaaccac tggcagacag ccccgttntg gaacctggga 120
tctttctgtg cttgcacgag ttctaacaat aacacctact ggtgtttgcn tacagttaat 180
gagacgcata atttntttt ctgtgagttt gctactggct tttggagta ttngatatg 240
aatacagatc cttatcagct cacaataata gtgcacacgg ttagaacg 288

<210> 80
<211> 322
<212> DNA
<213> Homo sapiens

<400> 80
aaacagcagc tgggtgggttaa caagtggatc gtcattgttca gtagtttata cattatgtga 60
gaagttaacgt tctgattctt tttcttacac agaattggca gaggggggtcg atttgggagg 120
aaagggtgtg ctataaaactt tgttactgaa gaagacaaga ggattcttcg tgacattgag 180
actttctaca atactacagt ggaggagatg cccatgaatg tggctgacct tatttaattc 240
ctgggatgag agtttttggat gcagtgtctg ctggttgcga ataggcgatc acaacgtgca 300
ttgtgcttct ttttttggg ga 322

<210> 81
<211> 361
<212> DNA
<213> Homo sapiens

<400> 81
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ctaaagggga gagtattctt taaagttttt aacataagct tgtcaatgca catgtagatg 120
gttagcatgt ttagcaaaacc ttgtgaaatt ataataagtt tgtagttaca tgtgaaactc 180
taaattgcag gcaactgtta atgtcataac agtttagtta ttttgttctg ttctgtcatg 240
tgccacaaaa tatgtacttt tttcactttt tccctttgt atatcagtta cgggttacaa 300
ctggttcatt ctgaaaacaa caacaacaaa agtccattca tattttttta ccattgtata 360
g 361

<210> 82
<211> 206
<212> DNA
<213> Homo sapiens

<400> 82
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aaacagccac aaaaataaat gctgacttag aaagtataaa cgcaaatatt taaacaaaaa 120
tgtttgcagc attcatagcg caaattgtac ctgaactgga aagccgaatt ctgcagatat 180
ccatcacact ggcggccgct cgagca 206

<210> 83
<211> 563
<212> DNA
<213> Homo sapiens

<400> 83
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gatccgagtt gggaaacccat gggaccctaa tgttctctat gggccactcc acaccaagca 180
ggcagtgagc atgtttcttg gagcagtgga agaagcaaaag aaagaagggtg gcacagtgggt 240
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tcttggccac gatgcgtcca ttgcacacac agagactttt gctccgattc tctatgtctt 360
taaattcaag aatgaagaag aggtctttgc atggaataat gaagtataac agggactttc 420
aagtagcatc tttaccaaag atctgggcag aatctttcgc tggcttggac ctaaaggatc 480
agactgtggc attgtaaatg tcaacattcc aacaagtggg gctgagattg gaggtgcctt 540
tggaggagaa aagcacactg gtg 563

<210> 84
<211> 450
<212> DNA
<213> Homo sapiens

<400> 84
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ctgggtcctc aataggaact tttcatacca gccataaaca atccagatgg ctgccacgtg 180
gtccttaccac gtgagaggcg tcacacagca cacactgcat gaatggggat gaaatcattc 240
ctgaattaat atagggttat attacttggc cctcagccat ttgagcctca gtgtctgcat 300
catatgtgtt tagtatatgg acatctaact gaaattatta acgtggcaat ttatgcgtgc 360
cttttttggg aatattctat tttaatggaa agaattatgt agaaatactg gatacatttt 420
taaaaaacatc cataattcac catcttgaca 450

<210> 85
<211> 320
<212> DNA
<213> Homo sapiens

<400> 85
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aaaccagtgg gatagaaaag ccaacggatg accatgtaca gatggacca gctggaatgt 180
gcggagacat ttttgagagt gttcattcat catataatgt tgctacaggt aacattataa 240
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ctttaaatca agatattgag 320

<210> 86
<211> 524
<212> DNA
<213> Homo sapiens

<400> 86
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aaaaggtaact aagcctttta caaattgggtg agtactggca catgagatct agagcaggag 180
caactttctc cacatagtaa gtgggaaaag aaagtgcctt gaaagtccct ccctcaccta 240
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tatgttttct tgcagctgcg gttgttaagg cttggcaaga caagcagtgt ggccagaatt 420
ttgaacttct gatgaatgtg taatgcaaa gacctgtgtt atttttttgt ttcaaggctc 480
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<210> 87
<211> 439
<212> DNA
<213> Homo sapiens

<400> 87
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aatgactacg	tggacatcat	ctgtccgcac	tatgaagatc	actctgtggc	agacgctgcc	180
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ctgtctgaga	agttccagcg	cttcacacct	ttcacacctg	gcaaggagtt	caaagaagga	360
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<210> 88
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 88						
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ttccactggc	gaatcggcca	tgtcagagcc	agacaggatg	tttatgaagg	taaactagct	180
gaccagtact	accagagaac	tttactgaag	aaagtctgga	aagtctggcg	ttccgtagtg	240
caaaagcagt	ggaaaagatgt	ggtagaaaaga	gcttgtcaag	caagagctga	agaagtttgt	300
atccagattt	ccaatgatta	tgaagccaaa	gttgctatgt	tatctggagc	tttggaaaaa	360
gcaaaagctg	agattc					376

<210> 89
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 89						
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tggacacaga	gtgcaagggt	gtcatcgact	tggcggagggt	ggaggctgtg	gcacctggca	180
cgcccactat	gggtgccccct	aagactgtgg	acgagaaggc	cttctttgac	gtgaagacaa	240
cgcgctcgctt	tacaacttct	gtgcccagga	cgtgccccctg	gcccagcagt	gggtggaccg	300
gatccagagc	tgctgtcggt	acgcctgagc	ctcccagccc	t		341

<210> 90
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 90						
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gtcactatta	tgatgcata	aaaagaatgc	cacaagaact	aattgaggct	tcaaattggc	120
atggattttt	tcttcagag	aaaatatctt	caactctcaa	agtagaacc	tggtctttga	180
cccctggcta	cacaaagctg	cttcagttta	tccagaacat	catttatgag	gaaggatttg	240
atggatccaa	tcctcagaaa	aaacagagaa	acatttttaag	aataggaatt	cagaatcttg	300
gtcacctttt	atggggagac	gatatttgct	gtgagaaaat	ggtggcaaca	gtcacagcct	360
taccaagttc	ctctatgttc	tccgtggtct	tctg			394

<210> 91
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 91						
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gtcgaaaacc	ttggaggctt	tttttgagc	tggccacagg	ggtgttgag	gcctgcttat	120
gggtcctcga	tgctcgagaa	ctcctgcttg	ggg			153

<210> 92
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 92

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ggcttagcgt	ggtcgcggcc	gaggtacatt	cttgtagaac	cgggttcggt	tttccagttt	120
tgtagaaaaa	tagatgttcc	agccaccatt	tacttaactg	tctaataattt	aagaccaatc	180
aatatgttcc	ctggaaagat	gaaaaagtct	catgactaac	tcgttttttt	aaaaattctt	240
taaaacaaaa	agtgtgtgtg	tgtgtgtgtg	tgtgtttact	ctcaaagcac	agcattttcc	300
cagcagcagc	caacatgggg	tttagtagct	tcactcacc	ctaactaaag	ctttgaataa	360
accagtgtatt	tactacaaaa	aacactgtcc	ttgaaagaaa	ngacngcagt	catacatgaa	420
cgtgaaaactt	ggaatgatca	ggtcctaaac	atggcactta	aaaagttact	tatcaaaaac	479

<210> 93
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 93						
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gcagcacgcg	ccatgatgag	agctcccctt	ccgaggcgct	tctggagcag	cttccctcac	180
ctgtccggga	gacgggctca	gaagagcagg	gccccatgc	tgccaacctc	gttttgctcc	240
ttaacgaaga	tctcaaagta	ctggtagatg	attgtgactg	cgagcaggat	cccgggtcca	300
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aaggccgcg	ctgtggggat	gtaccggttg	agttcatgga	ccatggaggt	ctctcggtgg	420
cctctcatca	ccatctgctg	ctccttcagc	tgttttgcaa	catctttggc	agaggaaacct	480
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acaactgcat	ggaacgggtc					560

<210> 94
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 94						
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agttctcat	ttggttcttc	tgctcagcca	ccaggaagtt	aaagttcaga	ctgctgcact	120
tagagctgtg	ggcaacattg	ttactggaac	tgatgggcaa	acacaagtag	ttttgaactg	180
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agcagtgtgg	ttcctctcca	acatcactgc	aggaaatcag	cagcaggtac	aggcagtaat	300
tgatggcaat	cttgtaccaa	tgataataca	ccttttggat	aagggggatt	ttggcccaag	360
cagcttcttt	ttgagtgcga	agtcgacgcg	gccgga			396

<210> 95
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 95						
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gattttccaac	aaaagcttta	ggaattggga	agggtttctac	atctcctttg	tcatcttcaa	120
tgtcatcgaa	attgctgctg	tctatgtcac	tgctgagttc	aggtactaca	ggagctgccg	180
ttttctttat	gttatcccaa	tgccactgat	cattctttaa	gaaaggatgc	tgtctgattt	240
cttccacccc	atttctccca	agtcgtacct	ccttatctgt	taagaaagca	cagatgagat	300
tctttgcatg	tttggaatt	tctgcatctt	cagggaaaca	cagtgaattc	ttatgatcca	360
taatttttgct	atatgttctt	acaagtgaat	ccgcataaaa	tgagatattc	cccactagca	420
tctcataaaag	gaaaacacct	acagaccacc	aatcacattc	tcgcccatag	aaaccatcac	480
ccccttggtga	tttcagaacc	tcaggtgata	tataatccgg	tgttccaact	gctgtatcac	540
aatgtaccat	gcctgtttca	tccatcttca	tacaggtgcc	aaaatctgct	aatttttagat	600
ggtcatgttt	atcacagagc	at				622

<210> 96
 <211> 445
 <212> DNA
 <213> Homo sapiens

<400> 96

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tgctttttct	tgagagcttg	tggaagggtg	taacgtggct	gggaacatca	acaccttggc	120
atgcatgaat	gttaagtcag	gaaggccagc	gatcaccttg	atagcttctt	cacttaggtg	180
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tgcaaatgca	tcagtcactt	tgaggcttga	ggtggagatt	tcagcttag	aagttgttaa	300
ctcatacaac	tcgggatcca	caccatctaa	agggttagta	aggccactgc	tactccagtc	360
aaactggacg	ggtggtagag	actcctggaa	ctgatcagat	gtacatgtgt	tcatactctg	420
tgacatgggtg	gctgtctgac	cgatg				445

<210> 97
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 97						
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agtggagtgc	tttgaccag	aagcctggga	tatgccggat	gatgaggtct	ctgcgctcca	480
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g						541

<210> 98
 <211> 384
 <212> DNA
 <213> Homo sapiens

<400> 98						
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acccatttta	cagaaaaatc	ccaaaacata	tactgcaata	agctcaaaac	aatgtgaaaa	120
agaccagtgt	gaatggcaca	caaaaatcgc	ctctttataa	attaactgga	attcatgata	180
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agtaattttt	aaaaaacttta	gcattcaggct	gctgaagcgc	ttgacaaaac	tcctgaatta	300
ttttcggagc	tacttgcaag	gagggcagggt	attcttgttg	aagatactga	acacattctg	360
ggccccggtt	gagatgaatt	gttt				384

<210> 99
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 99						
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gtgactcaag	accacaaaaa	acccatttct	ccttcacttc	tgagtccctg	ggtaaatacc	120
tagaccagca	agtgtactgc	ttgggggtcca	ttcacagggt	tacaagtgtt	tcattgagtg	180
caatctgtga	ctgtgtgagg	ttggccagggt	aggtcacccat	caaaagggtca	ttgatgttgc	240
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agtcacttga	gagtcacatc	actctgttgg	ggctaaaagca	ggtcttcatg	atcagggtcaa	480
ctccgatgag	ttcagtgctg	tagtacgcgt	atttcactgt	cagaggggtg	aacat	535

<210> 100
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 100						
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acaattttga ctaaagaata aatcccttca ttgttaaacc taaacagctt taaaattcag 180
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ctctcagcag aaataaaaaa cacatagtag ataatacaca atagtaaaaa gcatcagaaa 300
ttgatgcacc tggattttgt taaatacaac aaaggctact cagtccctca tggataaacc 360
tagctgggag aatagcactg aacagtgtat tgcattgagc agaaatccct cagaaaggca 420
acactggatt cattttttaga caggcataga ct 452

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<210> 101
<211> 447
<212> DNA
<213> Homo sapiens

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<400> 101
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gcatcttcaca ccttcaatt acaccacatc aagaatgagg ggaaagcgtt gtaaaagtag 180
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agtctcatag gtcaataaag cttctgcgag attcttatgc tcctttgcat gagttttcaa 360
gatattgtttt gctcgttcat atgagtcact tagaaggatt cttatttcat gttcgtggc 420
agattgggtt tctggactta ggttttc 447

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<210> 102
<211> 368
<212> DNA
<213> Homo sapiens

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<400> 102
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tgcaaaagcat attgcacatt acagagaagc atttgtgtat ttccgtaagt ttcccagag 240
tttccaaactc tatacttttt ttgttaaaaa gatttacctt tcttatgcaa aataaataaa 300
aatgcagctt gtgttttgct atttaaaact aaaacaaaaa aaccttttaa aatattattc 360
ctctgcct 368

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<210> 103
<211> 685
<212> DNA
<213> Homo sapiens

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<400> 103
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ctgtgaccca taatcccaac attttacagt gcaggggaga aggaggcttg gggaagcatc 180
caaaacaagt ctctcaaaaag aaatgacttc aaaacttcac attccctctc cacacgggat 240
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ccggccggta aggtgtgtgc ttcaa 685

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<210> 104
<211> 676
<212> DNA
<213> Homo sapiens

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<400> 104
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tcactcttaa	ttaattgtgc	ttaaggctga	attaaatttg	ggtgttccct	tcttagagca	360
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tgggtcctct	cccggctcgg	gagtcgcctc	cctacagagt	gtgtagcgag	cgaactctgg	600
aaagtagtcc	tcaatctcga	tttgccaccg	ggactttctca	gcagcaggtc	ttgcttgtgt	660
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<210> 105
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 105						
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atggagagct	ggattttctc	actttttctga	ccattatgca	catgcaaata	aaacaagaag	300
acccaaagaa	agaaattctt	ctagccatgt	tgatgggtgga	caaggagaag	aaaggttacg	360
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<210> 106
 <211> 440
 <212> DNA
 <213> Homo sapiens

<400> 106						
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ccaaggcctt	catcagtggg	gctggtgagt	cagacatcta	tgtggtcatg	tgccgaacag	240
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gcttttgcaa	gaaggagaaa	aaggtggggg	ggaactccca	gccaacacga	gctgtgatct	360
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<210> 107
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 107						
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gccggagtta	cagttagcca	agattgcgcc	actgcactcc	agcctgggag	acagagcgag	120
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ccaagaatgg	tgtctaccaa	tgattgtctc	ttggccactta	ccgtacgcat	acagaaagtg	300
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gctgttctgg	aagtaattta	acacactcaa	aatgggtngcg	ttcgtgttat	acggtgaaaag	420
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<210> 108
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 108						
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ctctttctga	tcattggcaa	cacaatggca	ttccagaatg	atgtctatga	atgggctcgt	180

gaccaccgtg	cccaccacaa	gttttcagaa	acacatgctg	atcctcataa	ttcccgaagt	240
ggctttttct	tctctcacgt	gggttggtg	cttggtgcga	aacaccacgc	tgtcaaagag	300
aaggggagta	cgctagactt	gtctgacctt	gaagctgaga	aactggtgat	gttccagagg	360
aggtactaca	aacctggctt	gctgatgatg	tgcttcatcc	tgcccacgct	tgtgccctgg	420
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<210> 109
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 109						
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gagaactttg	gagaaaggag	cagcatggtt	tcgactaaaag	acttcatgaa	caccttcagt	180
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aaattctctta	actttaaatg	ccggggaaaag	tattgcacac	tgtaatgcac	atcctctggc	300
tactgcttca	tctgcattga	gtgttgtgct	aatatctttt	ccaaagaatt	tggcaattct	360
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t						421

<210> 110
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 110						
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tgctcctgcaa	taggcagagc	tatcacgtcc	aggaaaaatg	agggagggaa	ccacagaggc	180
agcgtgagat	ccaaatacag	cattcaaagg	taattggtcc	agtgggtgct	ggggagggag	240
gaaggggtgat	actccagggg	tagccgtctt	cttttggggg	tgtgtacagc	cgtttttttc	300
gtggatctg						309

<210> 111
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 111						
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tttctataaaa	cttgaatggt	aattgtacag	gtgtattttta	caattttttgt	ttaattaaaa	180
aaatgttact	atattaataa	tcaacctggt	caaaaccttt	caggtttctt	cgtttgagtc	240
agtcgccttg	attcagaatg	tcacgagcct	tatgatataca	tgctgaggcg	ccttgcaaat	300
ccgacaatta	agatcctcct	agaccttgag	gtgatcagca	taagaggcca	gatcccctcg	360
agtcattctac	acctagcttc	accttattct	ttaaagggca	gaaaatttga	gacggtgatc	420
gccgtaacag	taaaatttggc	ttacaatttg	ggcacccttc	cggttttagaa	agaggaacac	480
cagattgac						489

<210> 112
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 112						
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ttccaccctt	ggaccagaca	tcaagcttta	tccattcata	taccatgctg	tcgagtcctg	180
tgacagagacc	gctgaccatt	cagggcaaaag	gacagggacc	tgaggagccg	agcgaatagc	240
atctcctccc	acctcccacc	agagacgtcc	tgtttgagct	gtcagggtgt	atatatgaat	300
tgacttaagt	taatataaat	gtgtacataa	tccacatttg	tagtcaagga	cgcaatctct	360
tccacacatg	tgcaagtgtc	agttgggtaca	tctaaactcc	ctccatcctg	actcacgtgg	420
acttagatat	gttttgtttc	tattttcttc	tatgtcagtt	tttcattctt	tgatgtttat	480

gtcttttgtc catcagatct cttgtgatat cacatggaag gttgtgctca gcctgtcggg 540
tctctttctt cctgcacata tat 563

<210> 113
<211> 587
<212> DNA
<213> Homo sapiens

<400> 113
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aatatggatg acagtgggtt tttctctatt caggttataa gcaatgcctt gaaagtgttg 180
ggtttagaac taatcctgtt caacagtcca gagtatcaga ggctcaggat cgatcctata 240
aatgaaagat cttttatatg caattataag gaacactggg ttacagttag aaaattagga 300
aaacagtggg ttaacttgaa ttctctottg acgggtccag aattaatatc agatacatat 360
cttgcacttt tcttggtcca attacaacag gaaggttatt ctatatattgt cgtaagggtt 420
gatctgccag attgcgacgt gaccaaactcc tgcagatgat taggggtcaac agatgcatcg 480
acaaaaactt attggagaag aattagcaca actaaaagag caaagagtcg ataagacaga 540
cctggaacga gtgttagaag cacatgatgg ctccaggaatg ttagacg 587

<210> 114
<211> 222
<212> DNA
<213> Homo sapiens

<400> 114
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aaaagataaa atgacatttt gcaacatatg ccaaacttca tgttttagtgt acacttctaa 120
ttattggcat agagggatat aactgttaaa taacctgaaa tgacaccatg caatgggtgaa 180
actacagaag ttgggtgaaaa gaagtattta cataatgtaa ta 222

<210> 115
<211> 512
<212> DNA
<213> Homo sapiens

<400> 115
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cagggtgtttt tgtcatgtgt cactgctggc tctgtggctt ccaggtaagc tggcggcagt 120
accttatctg gtacctcaac aggtgttggc tcttcagatg ttagctcggg ggacgtgaca 180
tcggtagaag gttctgcagt ttccgggggaa tgttccgccc acagtctctg ctctctctaca 240
tctttgactt caaactgtcc acctcttggg tcatctgcat gctctttttt ggactgcggg 300
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tcagcggcag gggagtcgct ccgcttcaga gagttgggga ttgtgtagac ctcatccctg 420
tctgcggcct cctggcctct ggagtatgcc tcaaaaattc tgccccgggc ctccagccca 480
accacctcat aatctcctcc atgatagtcc cg 512

<210> 116
<211> 566
<212> DNA
<213> Homo sapiens

<400> 116
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gaagaggctt tgcggagagg agcccatacc agcgcaaaagc tganctcctg gtgctggccg 120
tgctgtctga cggagctggc gaccacatca ggcagagact gctgccccca ctgctgcaga 180
ttgtgtgcaa gggcctggag gacccctcgc aagttgtacg caatgctgcg ctgtttgcc 240
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cactgctcct cgcctacttg aagtccgtgc ctcttgaca cacacaccac ctagccaagg 360
cctgctatgc cctggagaat ttgtggaga acctagggcc caaggtgcag ccctaccttc 420
cggagcttat ggaatgcat ctgcagcttc tgaggaaacc cagcagtcct cgggccaagg 480
agctggctgt gagcgccctg ggagccattg ctacggctgc ccaggcctcg ctgctgccct 540
acttccctgc catcatggag cacctg 566

<210> 117
<211> 549
<212> DNA
<213> Homo sapiens

<400> 117
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ttggagaatt agtacagatt ggtcataaat gccgcataaa gtccgtagat ccaggtaaag 120
gtattttcaa atggcgtagt aatgcactgc agctgccgtg gccacaaaca ggtgccagat 180
ggcgtgggca aatggaatga tgccatcact cttgaagaac acaactccca agcaataaat 240
taagcccca caggcaagtt cctgaagtc atcgggtgtg ttcattgatg tcaccacca 300
ggctggagag aatcccattg tgagatagaa aaagagttca accacottat atttttcatg 360
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agatgccagg ggtccaagtt cacgaagatt taacctgga gcataagaag cagcaatgaa 480
gaaatagata accattctat cacacatgtg aaaacaatgc tccactgtcc ttaagtggct 540
ctttttcca 549

<210> 118
<211> 416
<212> DNA
<213> Homo sapiens

<400> 118
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aggtgtggtt ggttgatgcc gattgttaact attatgagtc ctagttagact tgaagcggag 120
aaggctacga ttttttttga tgtcattttg tgtaagggcg cagactgctg cgaacagagt 180
ggtgatagcg cctaagcata gtgttagagt ttggattagt gggctatttt ctgctagggg 240
gtggaagcgg atgagtaaga agattcctgc tacaactata gtgcttgagt ggagtagggc 300
tgagactggg gtggggcctt ctatggctga ggggagtcag ggggtggagac ctaattgggc 360
tgattttact gctgctgcta ggaagaagcc caataagtggt gtgaggcttg gtttag 416

<210> 119
<211> 405
<212> DNA
<213> Homo sapiens

<400> 119
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gaaacttatg ggattccttt ctacctacaa tacctcgccc actggccaga gtatttcatt 120
gttgacagag cacctggtgg agaattaatg gggtatatta tgggtaaagc agaaggctca 180
gtagctaggg aagaatggca cgggcacgtc acagctctgt ctggtgcccc agaatttcga 240
cgcttgggtt tggctgctaa acttatggag ttactagagg agatttcaga aagaaagggt 300
ggattttttg tggatctctt tgtaagagta tctaaccaag ttgcagttaa catgtacaag 360
cagttggggt acagtgtata taggacgggtc atagagtact attcg 405

<210> 120
<211> 318
<212> DNA
<213> Homo sapiens

<400> 120
cggacgcaag tacatccaga cagacagcgg cccctactgt gtgcctgct atgacaatac 60
ctttgccaac acctgtgctg agtgccagca gcttatcggg catgactcga gggagctgtt 120
ctatgaagac cgccatttcc acgagggctg cttccgctgc tgccgctgcc agcgctcact 180
agccgatgaa cccttcacct gccaggacag tgagctgctc tgcaatgact gctactgcag 240
tgcggttttcc tcgcagtgtc ccgcttgtgg ggagactgtc atgcctgggt cccggaaagc 300
tggaaatatg gagggcca 318

<210> 121
<211> 460
<212> DNA
<213> Homo sapiens

<400> 121
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 aagccagaag acaaaaggaac aaaaataaac aatgacgtgt attccaaccc aaacaatgag 120
 aaatctatgc aactagacta tcagttcaat ctatttccag gtcgctatcc tcaactgtgac 180
 acgtggcaga gttacgcaca gatgtcagca ccaagacttc cttttctggg agtaatccaa 240
 attcctggag aaaagcttca aggtccacag caaagaaatc atcccccagc tggtcagtaa 300
 cacgaacaaa attgccgatc aattcacccc ctttatagat cagcagggca ggaagggcat 360
 tectgggtgaa ctgactgctg gcgccaataa ctgagctctt caccttgcag aacttgacag 420
 ctgggtactc tcgggcaagg cagatcatgc aaccattcat 460

<210> 122
 <211> 672
 <212> DNA
 <213> Homo sapiens

<400> 122
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 atctggcagc ctgacctgra tgcgacactg gtcatactcc cgcttgggtg gaggctcctg 120
 gctgggagaa gagggaaacag gacctggctc tgggtgccact gggggtggct gagagcccac 180
 actgccacca taettcttgg ctctctctgc tttgtccctc tcgactcttt ctctaactct 240
 ttgtctggct gctaactcct cggccttttc cctccgcctc tccctcagcag cccggcgcat 300
 ctcattcttc tgtagccgct gtcgtgctgc tgacaactct tgcccttgtc tectgctgctg 360
 ccgttccccg ttcaatgcct cccgttcttc tctttcttca cgctccgct gcttctgggg 420
 ccacagctcc aacatccct ctagtgtgtt ccgtctttcc tcttcaactca aagnggggtt 480
 tgccttctcc cgcagccaga aacagattct tcaaggggcg ctggtccttg aggaattggg 540
 gtcccgtccc aagatatgtc caaggggagg ttcaaaaagg tctttcaaaa tcgggttggg 600
 cttggtcttc aaaaaacat tccatgaaa cttgagtcct ctgttccctt gaaggggcaa 660
 aactttctcc gg 672

<210> 123
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 123
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 actgtgatat gggctactcc ggcaaaaaag gaaaaactgg ctgtacagac atcaatgaat 120
 gtgaaattgg agcacacaac tgtggcaaac atgctgtatg taccaataca gcaggaagct 180
 tcaaatgtag ctgcagtccc ggggtggattg gagatggcat taagtgcact gatctggacg 240
 aatgttccaa tggaaacccat atgtgcagcc agcatgcaga ctgcaagaat accatgggat 300
 cttaccgctg 310

<210> 124
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 124
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 gcaccagaac cgattcatcc ggcagagcgg canagcagca gcagcaacaa caacggagtg 120
 aagagctgct agcagagaga aagcctgggc ctctggaggc gggaaagcga gaccagccc 180
 tggggagatg cgggatcaga gccccaggg aagagagtca agagaagaga gactaagtcc 240
 gggggagacc agagagagga ggctggggat agggggagcc caagagtga gcctgaggcc 300
 tc 302

<210> 125
 <211> 811
 <212> DNA
 <213> Homo sapiens

<400> 125
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 agtctgtgtc ttcccttgcct atgctgtctc ccacagctct cgggtgggtac taaatgacg 120
 gccactgcat gatgcttgtg tctttcccg cctgtggagt gaggtggctg tcttcacaga 180

ggaaatcgac	attggtgaca	tggctgctgt	gccccccgta	gatgtggcct	ggagccctga	240
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gtttcttctc	atggggccga	cagacggcat	ttatgttggg	tccgtccgag	ccttctgggc	360
acactccaaa	aaaatggaat	ccaaaagtgg	aggatatagg	agggcattca	atgtctcttg	420
tagtttccac	acttacgact	tgcttacagg	cagagggaac	ccagtagagg	atttcgtagt	480
ctccggaatt	tgacacgagg	aactgtgagt	ttacagacca	gtccaggtga	gtaatgaagc	540
tggaaatgacc	cgagcacttg	cccactcgcg	tgtacttcct	cccgtttgta	ctaaaggcat	600
atatatagat	gcagttgtcc	tgtgagccta	tggtaaagaa	atttcccatc	tggtgagtat	660
tgcattacag	agaagccgac	ggttccatcc	tgtgtgaagg	gggaccaagt	cttttgtttt	720
tcgtgttaaa	aacaacccac	ctcccagtta	gtgggttcgac	ttcaaccac	gacccttgag	780
ggatgaaacc	aagagaactg	gccggtttct	c			811

<210> 126
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 126	taaaaatacaa	aaaacagctt	tactcagact	ttttgactgc	catgtcctcc	60
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tgtgttagct	tctgccgggtg	cagatacagc	tcctaccaca	gtaggggtgg	tctcagataa	180
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aaaggctgga	gtttcttgac	ggcagctggg	gtctgttgga	ctgggtatga	tgtagctctg	300
aacagtcagc	gcctcttctt	ctgtttccaa	ttctgtttct	tgattttgaa	cttcctcacc	360
ctcttctacc	atagcaggtg	gtagttgtaa	taaagtctga	tgataatgat	gtgtagctctg	420
tatcaaatgc	atgtacatgt	tgtatacaaa	gtttgc			456

<210> 127
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 127	ttccgactct	tttcacatgt	ttttcgatag	cactgccatt	ttggctggac	tggcagcttc	60
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tctggctggc	tttgtcaatg	gcctattttt	gatcttcaact	gcttttttta	ttttctcaga		180
aggagttag	agagcattag	cccctccaga	tgtccaccat	gagagactgc	ttcttggttc		240
cattcttggg	gttgtggtaa	acctaataag	aatatttgtt	ttcaaaaatg	ga		292

<210> 128
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 128	gtaatttcat	agttattttta	ataaccaggt	ttacattaac	agtcacgtga	tgaacttttt	60
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tcacgttcca	gagctgcctc	acagctagca	cagntcacag	gagattactg	tctgtccata		180
cccaccagac	acagaactga	acaccacac	accagttttc	aaagaggga	cttacaatga		240
atgctggctg	cccagggcac	ccatgagtgt	atctgggnct	caagctggag	ttttccaggg		300
gagaaagcct	gggaagcttg	gtggcaagga	agttgggnat	tgcccaccct	actgggaaag		360
gggtttctca	gggggttgagt	gaaaatcccg	gggttagngt	cagccctttg	tgggaaacat		420
gggcactttc	agt						433

<210> 129
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 129	gatccaggag	ccacacagct	gccatgggtc	anaaggccct	ggaaaccgac	ccaggagatg	60
ccgtgggttg	cncgctttgc	ganttgctga	ttctaaacta	naagccattc	gtaagggtacc		120
tcgaaagggtg	gccagaagta	tctcctgcgg	ccctctagc	aggtgggtcga	ccagcatttg		180
cactgaagaa	ccagcgttgt	ctgaggttgg	gccacccgac	ttagcaagca	caaagggtacc		240

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cccagatgga gaaagcatgg aggaagagac gcctgggtcc tctgtgggaa tctttggatg 300
caagcttcca ggctagccct ccacaacagg aagatgagga gactgagaga agtgcaaagg 360
aacttggaat gt 372

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<210> 130
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 130
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gagggcacgg ggctgccgca ggcccagctg ctctggcgca aggtgccact ggacgagcgc 360
atcgtcttct cgggggaacct ctccagcac caggaggaca gtaagaagtg nagaaccgc 420
ttcagcctnt tgcccacaa ctacgggctg gtgctctacn aaaacaaagc nggtctatga 480
gcggaggtnc caccacgagc cgtcatcaac agtgcangct acaaaatc 528

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<210> 131
<211> 521
<212> DNA
<213> Homo sapiens

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<400> 131
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ccataagcaa tagctgcac ttctacaata tcacatgcat ggataatgtc agctctgggt 120
ggaggggatt caatctcaat ctgattccca tcacctatga cttctgattt taaatacatc 180
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atggtgacaa taatatcaag aactatnttt gccttagtaa agtcagttcc cgtgcattca 420
ataaaaaatat ttctagtatn tactgttatt ctggaatgat ccccatgat gatgggaggc 480
attgaaaaga cgacaccatt gctatcatag ataactggat a 521

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```

<210> 132
<211> 429
<212> DNA
<213> Homo sapiens

```

```

<400> 132
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ttccggagtc ctgggtctgc atctggcgcc ttggcccctg ctactcgcg ctctcctctc 180
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gtccggcctt tgggttttct gtctgtgctg ctactgtgc ttttcaagat ttctgtctg 300
acagaggaaa ggcgaggggc agaaaagtgg aaagagaaat tcagagagga tacctgggtc 360
cacaccaacc cggagcttcc tgcgcgggag gagacagtga accagagagg aaaggatagc 420
atggggggag 429

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<210> 133
<211> 442
<212> DNA
<213> Homo sapiens

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<400> 133
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<212> DNA
<213> Homo sapiens

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<211> 750
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<213> Homo sapiens

<400> 135
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<211> 348
<212> DNA
<213> Homo sapiens

<400> 136
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ccaactggta atggtagcga ctggcgctca gctggaattc cggctgggac taccgggtct 180
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gaagctgcaa aacctcttga aactggggct tgggagtcac acatgacttt ctccacattc 300
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<210> 137
<211> 505
<212> DNA
<213> Homo sapiens

<400> 137

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caactggtaa	tggtagcgac	cggttctcag	ctggaattcc	ggattgggtc	aattgggtat	180
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gggattttaga	gggttctgtg	gggcaaattt	aaagtTgaac	taagatttcta	tottggacaa	420
ccagctatca	ccaggctcgg	taggttttgtt	gcctctwcct	ataaatcttc	ccactatttt	480
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<210> 138
 <211> 513
 <212> DNA
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<400> 138						
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ccagcaacgc	cttccaggag	acctgggtatt	ggcacggaga	tgtcaacagc	aacaaagtgg	180
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accggcccat	gttctctgctg	cagtgtgcca	tggaggagaa	ctgcctctcg	gcctcagccg	420
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acaatggcca	gtccgacttc	cggcccaaga	acg			513

<210> 139
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 139						
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acctagaaat	agttacctcc	agtttagcac	atTTtaggtat	ttggacattt	aaagtactat	180
ttcaagtctg	tgtttatagt	gactgagtag	gaagctgata	gaaaatttatg	ccatatatga	240
tcaactatta	ccattaaaca	taaaaccaca	ggacttttcta	cttggggcta	atcaatagag	300
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<210> 140
 <211> 334
 <212> DNA
 <213> Homo sapiens

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tgaacacctg	gcttttttgg	gttttatcc	cattgtagcc	catatcaatt	ccattactgg	180
gggaggatgg	accaattcga	aagacgtgac	aaaacattct	cacaatcctt	aaaaggctct	240
tcatttgagc	atcataattg	ctagagaggg	taagcagttt	atgaccattt	gttgtagcaa	300
cttcagcaag	gcttggttaga	atcttttaggt	actg			334

<210> 141
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 141						
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gctgcgtact	gttcaatgag	agccataatg	tggctgtaac	tgtcttctc	atattgcaag	180
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cactgaacca	ccagccagct	gcattttgttg	tcctggatgt	cagtgccaat	tttgccggtc	360
acactggggg	ccccaaagag	gtcaaggtaa	tcctcctgaa	tctgaaagaa	ctcccccatc	420
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atggctgcag	ctatagg					497

<210> 142
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 142						
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cactgattgg	atacagggaa	aaaaaaaaacc	taacattaga	attaaggcag	taacaacatg	180
tgcaaaccca	gcacaccccc	tgacagtctt	cagtagaaaa	ctactctggg	caggtgggat	240
ctgacatggc	tgcatgcagg	tctcattgca	tggaaggata	ggtcctgaag	agcttcattc	300
cttaaagggg	aaaaggaccc	ttctcactgg	ccaacgatgg	ccaggagcag	ctt	353

<210> 143
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 143						
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gtcggccttg	tttcccgata	aagctattac	aatgcttagga	cttgcttgcc	tctgaagttc	240
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ggctgcttgt	gctcctctgt	agtacattgg	tgctaggcta	tggtatcggt	cttgaccagc	360
tgtatcccat	atttcaaact	ttactgtagt	gtcatcaaga	catacagttt	gggttagaaa	420
agcagcccca	atgggtactct	cttgaaatca	tgacattggc	tttcacaaaa	caagcactag	480
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gtattggccc	cgtgggtct					559

<210> 144
 <211> 572
 <212> DNA
 <213> Homo sapiens

<400> 144						
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atgaatgagg	gaattcttta	agtgttacag	aaagatttag	tagaaatggt	accagtggta	180
tggctgaaag	aatatttctg	tgaagtgtcg	ttatatcctg	aaaaccaaga	gtgaaatgta	240
gttcccatac	aagtggagag	ttagtctctt	aactacagta	tttgttgaac	tgatatcttc	300
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tcatagtcag	acttctgaat	ataaacaaa	ttttggcaaa	taatatttat	acagaaaaat	420
agtttttagat	cctctcaaat	cccagaatta	ttctataaaa	ttacattata	aataaataaa	480
aagcaaaatc	tgttgtacat	atatttgtac	atctatgcac	ttgccttgcc	tcctccttat	540
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<210> 145
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 145						
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aaaatcaatt	cctatgtaaa	tagtactgaa	aatcaactaa	aatgagttaa	aatttacaaa	180
gagttgttaa	agggtttcaa	tcaaaattat	taaaactata	cagtacaata	accaattgat	240
aacatcttga	aagaagtga	atatttgtag	tcacatattt	ttaaaagtgc	tgccacttta	300
ctctgactag	caagaatgga	aagtgagtc	aactcacttt	tgcaaaaata	atgttgggtg	360

gtgtttttaag ctagtcttat aaaagtctta attaaaaatca ag

402

<210> 146
<211> 482
<212> DNA
<213> Homo sapiens

<400> 146
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gggagatttta aaaatgagac ttttcaagca agcactgcct atagcatagt ctcatatatt 120
gaaaatttta acctaatttt aattatata aaagaactat tttaaaaaat cacaccaca 180
agtaaaaaaac tggtaatctg tttacaaagt gcagcgtcag tacagcaaac tcatctcaac 240
aaaagattat gtgtgggttt tggggcttta aaactcccc gggttccatt taaatgcttt 300
aacattgagt catcctgcat acatgaaaag cctgtgtaat gaagcctggg tcccttaaca 360
cctgctatta attaattcca acataagtga gtatgagacc tgngaagtaa attgtcatca 420
tctgattgat gaggtacaga ttatctgaat aaaatttctg acctgggtat gagtcastaa 480
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<210> 147
<211> 489
<212> DNA
<213> Homo sapiens

<400> 147
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aatgttctctg tgacatgctt ttccaccat tgtcttgctc cagattttca actttcaatg 480
aagctcgac 489

<210> 148
<211> 372
<212> DNA
<213> Homo sapiens

<400> 148
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<210> 149
<211> 491
<212> DNA
<213> Homo sapiens

<400> 149
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gtcagagtca cctggatcaa tgatagccag tgtgcacact ctgtagtatt ttccgcatgc 180
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<210> 150
<211> 455
<212> DNA
<213> Homo sapiens

<400> 150
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<210> 151
<211> 465
<212> DNA
<213> Homo sapiens

<400> 151
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<210> 152
<211> 386
<212> DNA
<213> Homo sapiens

<400> 152
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<210> 153
<211> 601
<212> DNA
<213> Homo sapiens

<400> 153
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<210> 154
<211> 340

<212> DNA
<213> Homo sapiens

<400> 154
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cacttttcca gccacaagta tcttcaaaaa ttaatgaaaa aaaattatat atggccatag 180
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<210> 155
<211> 759
<212> DNA
<213> Homo sapiens

<400> 155
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tgctctttta tctctctctt tcactntcag ctttccctta tctttttctt tccatgctt 660
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<210> 156
<211> 703
<212> DNA
<213> Homo sapiens

<400> 156
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cagggccggg gggcggtgt ctggctggaa tctcccttg gtacatggag ggtgccagcc 180
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<210> 157
<211> 757
<212> DNA
<213> Homo sapiens

<400> 157
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tctcagcttc tcccaggaat tcattccttt ttgcttcata tgtctcctga agactgaagg 180
gtttgctgtc agggctcagt tccttgaacc ccatctcttc aagcttacag cgtcggta 240
attcatagt gcgggtgtga gtctgctctc gcaagtcctc catgttcacg cggatcagca 300
tctctcgaag ttccacaaaa tcgcaatgat tttcattctc aacctgcacc acaccccagg 360
gggtactgct ggccctttgcc atcttgttgc caatcttcac ctcttcgggtg ctgccaacca 420
ctgcaaatgg gagatggaca ctcattgttg cgttaatctc tgccaccgtt tcttcatcag 480

tgggaaactg	atatatctgg	acccatttgc	tgaccagtgc	actcatgac	ttactcttga	540
atntgtgcag	ttcattcttg	gcaatgtgtc	agcttttgca	aatattggga	atgatgtcac	600
cttactgtcc	agctttttca	tggtgaccag	atcccaggga	ccttagtgan	tgtcagtang	660
gggcaataag	tagaggcaag	gcatgaatcc	togtgtcatg	gtagtttgag	aagagaccgt	720
taaatctcat	tttntctctg	ngtangccct	cgaactg			757

<210> 158
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 158						
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catctggccc	gtcgtcagtc	actcttagaa	gtggtaata	cagtggata	gtttggaagg	120
aaaggaggaa	aaaaataatg	cattgtgata	caaaaatatt	acctacatat	aaattattaa	180
agattttataa	aacattcaga	atatgttctt	gctataaaaa	caatatactt	aaatatagaa	240
gcaaaaagtc	ctgaagcacc	cgcaattatt	ttaatatoca	tttaatcagg	gaaaactata	300
tatgtggata	tataatacat	acatatgtaa	taatttgaga	agaaaaaagg	caaaattctg	360
attataatcc	aaaaagagtt	tatctaatta	tggaggtagg	tctccactcc	aattatacaa	420
ataagttatc	agtttttattc	aaagaattat	aagtc			455

<210> 159
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 159						
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aaatacagca	attcaaattc	ctgtagatag	acatccagtc	gcttctgagt	gagattcatg	120
gttttgtaaga	gtttttcatc	ttgactggct	gactgtacat	tctgttgctt	agcaactgct	180
cttatctcct	tcagggtattt	ctctctaaca	gactggaacc	agtgaagtga	atcaaactcc	240
cgatactgat	ccaaaagctt	tagaatgtaa	gccacacca	tggaagacc	atcatcagta	300
aaggcagctc	caatttttatt	tttttttatt	aatttttctt	tgcaactaat	ggaatgctct	360
acaaagttga	gggtcagagg	gggaacaatt	atatagaaat	ttcggagatg	tatattcttt	420
ggccttcgaa	attctggagc	aaaaacgtct	acaagcattt	tgaaatattc	tgtgccttcg	480
gcagaa						486

<210> 160
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 160						
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catcttcatc	actactagat	tcactgtgac	gaatttcagg	acatttggtt	cgcttagcct	120
tacttgccat	tccagaactg	ttccggctct	ttttactgcc	tttgctacaa	gactttttta	180
atttcggcaa	tggttttgcca	gaacgctttg	gatgcattaa	gaaattcaag	atcctcttca	240
ctagtctact	atttacacct	gatctctcca	aatcaagaac	ctcacagatg	ctctttaaca	300
tggcattttct	aaactttttc	aacattttct	ccttcttttt	atattggaca	cttctttttt	360
caaatggaaa	gccactgaac	tgaccacat	tcttctttta	tgaggacaca	cagcctggcc	420
tggtgtaaaag	cactttgtgt	acatatctaa	gatcatccgt	tttcttctta	cttagaaaaa	480
catgtatgct	ctcaatttca	caaagcgtct	gccgctttcc	ttgctgcatt	gtaaattgct	540
ctctctgcag	ggagagacgt	gcattggcac	ctctctactt	tttcttttcc	ctcttgccct	600
cccgaaaagaa	cctttttttt	tcttctctct	cttctctc			638

<210> 161
 <211> 845
 <212> DNA
 <213> Homo sapiens

<400> 161						
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gccaatatct	tatcatctcc	ctctaagaga	ggacaaaaag	gtacccttat	tggatattct	120

cctgaaggaa	cacctcttta	taacttcatg	ggtgatgctt	ttcagcatag	ctctcaatcg	180
atccctaggt	ttattaagga	atcactaaaa	caaattcttg	aggagagtga	ctctaggcag	240
atcttttact	tcttggtgct	gaatctgctt	tttacctttg	tgggaattatt	ctatggcggtg	300
ctgaccaata	gtctgggcct	gatctcggat	ggattccaca	tgctttttga	ctgctctgct	360
tnagtcatgg	gactttttgc	tgccctgatg	agtagggtga	aagccactcg	gattttcncc	420
aagggtacgg	ccgaataaaa	attctgtctg	gatttatnaa	tgggcctttt	tccaaanagn	480
aaanagcgg	ttttgggggt	angggagnca	agnggcaaga	tggattggan	cccccaggaa	540
ttaaggcnnc	ccacannnga	aacacccagn	nccanttggn	ggngnrrnaa	nnaaacctn	600
antgggacn	gggnccttna	nccaaggccc	aagncangcc	caggggggct	ccncaagggt	660
agnngcanc	aaannnggnc	aaaggncctt	caaacncann	ggnggggnca	agggaccng	720
ggggngggc	aacncgggg	tnnggggggg	gngnaaaacn	caaaaanngg	gggnatcca	780
aaaggttgg	aaaaacntg	gnaaaanggg	ggnnccgncc	aaaggccnaa	aaangngtgg	840
ggggc						845

<210> 162
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 162						
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agtagtacat	ggtggataac	ttctactttt	aggaggacta	ctctcttctg	acagtcctag	120
actggtcttc	tacactaaga	caccatgaag	gagtatgtgc	tcctattatt	cctggctttg	180
tgctctgcca	aacccttctt	tagcccttca	cacatcgcac	tgaagaatat	gatgctgaag	240
gatatggaag	acacagatga	tgatgatgat	gatgatgatg	atgatgatga	tgatgatgat	300
gaggacaact	ctcttttttc	aacaagagag	ccaagaagcc	atcttttttc	catttgatct	360
gtttccaatg	tgtccatttg	gatgtcagtg	ctattcacga	gttgtagatt	gctcagattt	420
aggtttgacc	tcagtcccaa	ccaacattcc	atcttgatact	cgaatgcttg	atcttcaaaa	480
caataaaaatt	aaggaa					496

<210> 163
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 163						
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gttgggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tggtactggt	atgtcttatg	120
tccagaggaa	aaaatggtat	catcacagatt	tgctcttact	tgggagtagg	ctattcaaaa	180
atacagtact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaagc	240
attggcctcc	atggtaacca	aatatctcag	tccaataactt	tctattatgc	acaataccct	300
gacttcaatt	gaaagtgatc	caaattctag	caggtccata	ttaacagtca	acaactatgt	360
tataaaaaca	aatgatctca	caataataaaa	aagaaaagctg	gttcataactt	ctgaaaccat	420
ataaagataa	aaaattttta	aaaaatcact	ctcgatttgg	agaaataaat	ttacattata	480
caacactata	t					491

<210> 164
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 164						
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tggtgggggca	agagtccecca	ggtgggggaca	gggaaagtgc	tgaagcctgg	ccactactgg	120
gcagggaaga	cagagttgcc	actgtatgca	caggggatga	gcagctgccg	gtactccagg	180
ggcagggtgcc	gctccactag	cacgtgcagt	gagacttgg	cagtgaccag	gcoctgcgcg	240
cgcacacaga	gctccaggtc	ctctggcttc	acagtccttc	ggccagcatg	agcagcaaat	300
acctccagat	catcacaaaag	atgctggaaa	tatttatcta	ggcacttctc	caccatctca	360
agagccttcc	tctccatggg	catcttggca	tagaagctaa	agagtttcac	atagtggctc	420
agtccagcct	tgtgggggatc	ttgccggngc	ctgnngc			457

<210> 165
 <211> 477
 <212> DNA

<213> Homo sapiens

<400> 165

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tttttttttt ttttagtttt cttcccaaat ggttcctcag cccagtgct gggccctgaa 60
ataggcccag ctccctgtat agttcccaca gagctggcca caccataagt caggggcaaa 120
ctggaactgt gggaaggagc tgcagcctgt acttccccctt cagtttagagc ctgaagctgg 180
aggagctttct ttagcaagta ccttcttttct tcttttgctt taagaaattt ttcctcaaga 240
cgagcaattt catcacaaat agcagcattt tcaaacaccg tggccttggc cgctttgcgc 300
agcgcaggt acttcagccg gtactttctca ttctggctct tcttcgggag ctttttcac 360
ctggccttgc tggactgcag cggagcccgc ggcgaggaag cgaggccgtc cagcaggctc 420
atggtccagc cccgctacgg gggccccagg acgctgccgg catcggatcc taagtcg 477
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<210> 166

<211> 468

<212> DNA

<213> Homo sapiens

<400> 166

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gagaagacga cagaaggggc tactgcggca gaaccagagg gccctgaacc gtgccatgcg 60
ggagctggac cgcgagcgac agaaactaga gaccagagg aagaaaatca ttgcagacat 120
taagaagatg gccaaagcaag gccagatgga tgctgttcgc atcatggcaa aagacttgg 180
gcgcaaccgg cgctatgtgc gcaagtttgt attgatgcgg gccaacatcc aggctgtgtc 240
cctcaagatc cagacactca agtccaacaa ctcgatggca caagccatga aggggtgtcac 300
caaggccatg ggcaccatga acagacagct gaagtgtccc cagatccaga agatcatgat 360
ggagtgtgag cggcaggcag agatcatgga tatgaaggag gagatgatga atgatgccat 420
tgatgatgcc atgggtgatg aggaagatga agaggagagt gatgctgt 468
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<210> 167

<211> 399

<212> DNA

<213> Homo sapiens

<400> 167

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tttttttttc ttaggtttat aatcagcatc atcctcatct cgaggctctt ttaatggctt 60
tatatcctct ttagggaggaa caaaatagcc atcatcttca ggttcattct taatttgttg 120
tggactagag aagccatttt ccttctcctt ctttattttt gcacccccag aggctcgaac 180
cttttctctt ttctgttttt ccttgtctct gtctttatgt ttgtctttat gcttttctga 240
gcttccatct ttgtgttttg tcttctcctt ctctttgtgt ttcttttcag aatctttatg 300
ttcactgttg ctatgcttgg acttttcccg gnccttctcc tttctgggtt cttttgngcc 360
gnggtctcga tcttttggtt atttttgtgt tatgagaat 399
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<210> 168

<211> 557

<212> DNA

<213> Homo sapiens

<400> 168

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gagcccaagc gccttctccg caccaggga gccccacca ccagaagcca agatgtccag 60
caagcggggc aaagccaaga ccaccaagaa gcggccacag cgggccacat ccaatgtctt 120
cgcaatgttt gaccagtccc agatccagga gtttaaggag gctttcaaca tgattgacca 180
gaaccgtgat ggcttcattg acaaggagga cctgcacgac atgctggcct cgctggggaa 240
gaacccca cagcaatacc tggagggcat gatgagcgag gccccggggc ccatcaactt 300
caccatgttc ctcaccatgt ttggggagaa gctgaacggc acggaccccc aggatgtgat 360
tcgcaacgcc tttgcctgct tcgacgagga agcctcaggt ttcattccatg aggaccacct 420
ccgggagctg ctcaccacca tgggtgaccg cttcacagat gaggaagtgg acgagatgta 480
ccgggaggca cccattgata agaaaggcaa cttcaactac gtggagtcca cccgcatcct 540
caaacatggc gccaaagg 557
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<210> 169

<211> 564

<212> DNA

<213> Homo sapiens

<400> 169

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tcctgttttg	ctcaaaactct	ctagcaccca	agaaggagta	cgtaaaaagg	taatggaact	120
gctgggtccat	ctgaataaac	gtataaaaaag	ccgccccaaa	atacaacttc	cagtagagac	180
actgttgggt	cagtaccagg	accctgctgc	agtttccctt	gtcacaatt	ttactataat	240
ttatgttaaa	atggggtatc	ctcgccctacc	agtggaaaaa	caatgtgaac	tggcccttac	300
gcttcttact	gccatggaag	ggaagcctca	gccacagcag	gatagcttaa	tgcattcttt	360
aataccaacc	cttttttcaca	tgaaataccc	tgttgaatca	tcaaaatcag	cttctccatt	420
taatcttgct	gagaaaccaa	agactgtgca	gctgcttttg	gacttcctgc	tagatgtcct	480
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acagggttct	tctttcaaca	gtgg				564

<210> 170
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 170						
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taaaagtgata	acatgcttct	acctgtattt	ctagtgaacc	tttagcgga	ggatattata	120
cctggtrattt	atgatgcagt	atataagtgg	tgaacaataa	ctgacagtat	tgtgcttgct	180
gtacatgtct	gggtcttttga	aacagatttt	agtaagcatt	ttccagaggt	aaaactgtgt	240
ccttattcta	atttttattcc	tagggcaaag	tagacagggg	ttatttcctt	gaatctattt	300
ccaaattaat	atttttttct	ttgggtatttc	tacactttaa	ggccatttgg	tgcaatttag	360
aaagtgttgg	cctcccttcc	gctagccaca	ttcanaatta	acttccaaaa	cctcaggaac	420
agtacaaaga	attgaaaccc	tcaatatggc	agcacag			457

<210> 171
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 171						
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tacacgaaat	aaacttatgt	ctgcaatact	cagccttaaa	ttcacccttc	acttcagaag	120
aggtcccagg	ggcaggaata	acacgcacag	attgtttgtt	cacgacttcc	agccggtcca	180
ccagacctct	ggccaggtaa	tactgtacaa	agtgcctcca	cgtgatttct	cttccaggat	240
ctcgaaaata	gaggtagaaa	aatcccattg	caacgcctgc	ccccaaaagg	gccagactgc	300
ggaaatcctc	gtcatcccag	gggaagtccc	cccttctgca	tccgcctcca	ccaggcaacg	360
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ccagtctctt	tgggtgggtt	tgaacacagc	caccaggaaa	ataacgtcgg	tcttgctgc	480
agagtcagct	tctgaacgtg	gatccccctg	aagcactgga	acaggag		527

<210> 172
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 172						
cggcacgagg	gacaaocgag	cctgataaac	aagtggacga	cttttcttaa	ggccagactg	60
atttgcctcaa	ttcctggaag	tgatggggca	gatacttact	ttgatgagct	tcaagatatt	120
tattttactcc	ccacaagaga	tgaaagaaat	cctgtagtat	atggagtctt	tactacaacc	180
agctccatct	tcaaaggctc	tgctgtttgt	gtgtatagca	tggctgacat	cagagcagtt	240
tttaaatggtc	catatgctca	taaggaaaagt	gcagaccatc	gttgggtgca	gtatgatggg	300
agaattcctt	atccacggcc	tggtacatgt	ccaagcaaaa	cctatgacct	actgattaag	360
tccacccgag	attttccaga	tgatgtcatc	agtttcaata	agcggcactc	tgtgatgtat	420
aagtccggtat	accaggttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
ctgacacaga	tagtgggtgga	tcatgtcatt	gcagaagatg	gccagtacga	tgtaatgttt	540
cttggga						546

<210> 173
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 173
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 ctcttttgca gacatgtttg ctgtatcagc ttcgtgttct ttattctcat ctgtaagggg 120
 gttgtcatga agcttcaaat agatctctat agcaattctt gctgccttga agtaaaatgg 180
 atgctgtcga agtacatctt ctagtcttaa taagtccaca tatgatctaa gggtaatctt 240
 cctcatcacag tatgtatgaa agtcaaaactg gtcacagtg atttctataa aatgtctctc 300
 aatctcatga catttcttaa gtgcttcacc aaattttattc attgctttat aagcctgggc 360
 acattctgtt tggaaaccaca tgcactgcat ttcattcaaa ttctctaccg ctgatgttcc 420
 ttcccttgta aactttgagc acatttcttc agcttcttta atcagggttg ctttttagcat 480
 gtattttgca catttgaggt tgataaatct gtctgctgtg tccaaggcct gngcctcatc 540
 catccacctt gcagcttctt taatatttcc agcatgctta tagatttttag ctntcacgag 600
 aaagangtct attaatgtag tgtactntca atagcagtat ttatgtactc canagcanta 660
 gatggctgac caattttgtc ataatggtgt gccaaagtagt acttgacca 710

<210> 174
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 174
 ggcacgagca ttactacatg tccacaggaa gtacaaaagc catcttcatt tgaacgtaaa 60
 tacaataatc ctgaaattct tagcaccaag tattactttt aaaagtaaaag acaaccgagt 120
 gctctcccca catattgttg acttctctct actcacactg catgtcattt gagattttta 180
 aaagttagct gccacagttt tggaaaatgc cagtgtttta aaataattgt gttaaagaat 240
 caaaaagtta gcgtaacaga ttttgagtac ttcaaaccat tcaatgttac aaagaaaagt 300
 gaaaatacca ttctttgggt tagattagct gttcccttta catataattt acattccgat 360
 ggctttttga aaacttttaa aatgttgaaa ctactagac aaaacaaaa 409

<210> 175
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 175
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 taccccaagc cactgaccag cctgggactg cccctctgat tccagcgagt ggatgccgcc 120
 ttttaactgga gcaaaaacaa gaagacatac atctttgtct gagacaaaatt ctggagatac 180
 aatgaggtga agaagaaaaat ggatcctggc ttccccaagc tcatcgagga tgcctggaat 240
 gccatccccc ataacctgga tgccgtcgtg gacctgcagg gcggcggtca cagctacttc 300
 ttcaagggtg cctattacct gaagctggag aacccaaagtc tgaagagcgt gaagtttgga 360
 agcatcaaat ccgactggct aggtctgtga gctggccctg gctccacag 410

<210> 176
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 176
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 aaagaaagaa atataaaaag caatgtggca ttgggtcccta ttcattaaaa aaaaagggtg 120
 cttgggcacg acacaatcag aattagtttg ttttctaaaa ttcagagtat ctgggatttt 180
 aaaagtagca ctttttaaaa agttcaacaa gtcacataac acttaaaaca tcaaaaaagc 240
 tttctgataa aaagctcagc ttttaaatca cgttttgttt ctgcaaatct gggagacaaa 300
 ttgagttctt actggaatgt ggcctatcgc tgggttgacaa atctgaaatg gaatgtctcc 360
 aaatggcagt gcctcccttt ccgccctccc taggaccaca ccaataacca gctcccaagc 420
 acaagttctt gctcccatct tttctgtagg ggtgggggtg ggaccttcag gct 473

<210> 177
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 177
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tcagaaagaa	gcgcttggtg	ataaaaaata	tagagaatta	ttttcttcaa	gcccgcctctg	120
cgctgcgcgc	gcctccccgc	gccccgggcc	acggctgagt	gcgcggcgctc	agaggcccca	180
agtcocatctc	actatattaca	gatatgttac	aggccgggat	ggtcacagag	gaaagcccag	240
ctctcagcat	ggccccacgt	ggtgaggagc	ccccaggctc	ctcccggctg	tctcggacag	300
agactgagaa	gcctgcgcgc	tcccgtgggg	gcctaggctg	cggcggcgctc	cacggggggg	360
caggagtggg	ccgtgatgtc	gctgtgcttg	tacgcgcgct	cgtccaggctc	cagcagcctc	420
cgg						423

<210> 178
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 178						
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cgtctttgccc	ctctgtcaca	taacttgaaa	actgcctgat	ggcctttttg	cagtgggtcc	120
ctccaggaag	ccttgatctc	agttgaagaa	gttctttcct	ggcattccaa	tgcccctgtc	180
agctccatac	tcctcagaca	cccttaacaa	aggctgtcat	gcacacaatg	tgacaaatac	240
acaaaataaa	tgataattac	actaataatg	atatgttcag	aggggcactg	gccagggtcca	300
caca						304

<210> 179
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 179						
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gcaagtgtgg	ccaagaagag	catgatgtcc	tcttgagcaa	tgaagaggat	cgaagagtgg	120
gaaaactttt	tgaagacacc	aagtatacca	ctctgattgc	aaaactaaag	tcagatggaa	180
ttcccattga	taaacgcaat	gttatgatata	tgacgaatcc	agttgctgcc	aagaagaatg	240
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ggcagtagcat	gcagatgcta	cccaaggaaa	agcagccagt	agcaggctca	gagggggcac	360
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gccatgagtt	gtctcccaga	gaggtgaagg	agatggagca	gtttgtgaag	aaatataaga	480
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<210> 180
 <211> 685
 <212> DNA
 <213> Homo sapiens

<400> 180						
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tgtggagaag	gaacgtgata	aagaagtaag	cgatgatgag	gctgaagaaa	aggaagacaa	180
agaagaagaa	aaagaaaaag	aagagaaaga	gtcgggaagac	aaacctgaaa	ttgaagatgt	240
tggtttctgat	gaggaagaag	aaaagaagga	tggtgacaag	aagaagaaga	agaagattaa	300
ggaaaagtag	atcgatcaag	aagagctcaa	caaaacaaaag	cccatctgga	ccagaaatcc	360
cgacgatatt	actaatgagg	agtagcgaga	attctataag	agcttgacca	atgactggga	420
agatcacttg	gcagtgaagc	atttttcagt	tgaaggacag	ttggaattca	gagcccttct	480
atttgtccca	cgacgtgctc	cttttgatct	gtttgaaaac	agaaagaaaa	agaacaatat	540
caaattgtat	gtacgcagag	ttttcatcat	ggataactgt	gaggagctaa	tcctgaata	600
tctgaacttc	attagagggg	tggtagactc	agaggatctc	cctctaataa	tatcccgtga	660
gatgttgcaa	caaagcaaaa	ttttg				685

<210> 181
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 181

ttctcagagg	aacgagaatg	aatatgactc	aagccccgggt	tctgggtggct	gcagtgggtgg	60
ggtttgggtggc	tgctcctgctc	tacgcctcca	tccacaagat	tgaggagggc	catctggctg	120
tgtaactacag	gggaggagct	ttactaacta	gccccagtgg	accaggctat	catatcatgc	180
tgccctttcat	tactacgntt	cagaatc				207

<210> 182
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 182						
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cagtcgtcct	agcatgtccc	caacacctct	tgatcgctgc	agatcacctg	gaatgcttga	120
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ggatgggtcca	ggtccccgaa	tacctgacca	ccagagaaca	tctgtgccag	aaaatcatgc	240
tcagtcacagg	attgcacttg	ccctgacagc	tatcagtctt	ggcaccgctc	ggcctcctcc	300
gtccatgtct	gctgctggcc	ttgctgcaag	aatgtcccag	gttccagccc	cggtgctct	360
catgagtctc	agaaccgcac	cagcagccaa	ccttgccagc	aggattcctg	cagcctctgc	420
ggcagccatg	aacctagcca	gcgcccaggac	acctgccatt	ccaacagcag	tgaacctggc	480
tgactctcga	acgccagctg	cagcagcggc	catgaacttg	gccagcccca		530

<210> 183
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 183						
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aagattcttt	aaattacatc	aggaagacca	ggcttgtgca	acttgcctta	ttcttgcctt	120
ctccatctgt	gcctgtgata	gagaagtatc	tgccctgggt	actcgggctt	ttcttaggta	180
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catcttgggg	tctcctgtct	attctagttc	tcctgttcc	agtggtagtc	cctatccaaa	300
tcocatcctt	ttgggaacac	cgtctcatgg	tatacagcct	cctgcccatt	caactccagt	360
gtgtgctctg	ggaaaaccag	caactcaggc	cacaaatatg	agttgtgtga	ctggaccaga	420
gattgtgtac	tctggaaaac	acaatgggat	ttgcatttac	tttctcggga	tcatgggaaa	480
catttgggat	gcaagcttag	ttgtggagag	aatattcaag	agtggc		526

<210> 184
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 184						
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cccgtggagg	agaagaagaa	gattccagat	ccagacagcg	atgacgtctc	tgagggtggac	120
gcgcggcaca	tcattgagaa	tgccaagcaa	gatgtcgatg	atgaatatgg	cgtgtcccag	180
gcccttgcac	gtggcctgca	gtcctactat	gccgtggccc	atgctgtcac	tgagagagtg	240
gacaagcagt	cagcgcttat	ggtcaatggt	gtcctcaaac	agtaccagat	caaagggttg	300
gagtggctgg	tgtccctgta	caacaacaac	ctgaacggca	tcctggccga	cgagatgggc	360
ctggggaaga	ccatccagac	catcgcgctc	atcacgtacc	tcattggagca	caaacgcac	420
aatggggcct	tcctcatcat	cgtgcctctc	tcaacgctgt	ccaactgggc	gtacgagttt	480
gacaagtggg	ccccctccgt	ggtgaagggt	tcctacaagg	gatccccagc	agcaagacgg	540
gcctttgtcc	cccagctccg	gagtggggaag	ttcaacgtct	tgctgacgac	gtacgagtac	600
atcatcaaag	ac					612

<210> 185
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 185						
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agatcatgat	aatgttttac	atcacatttt	acagcatttt	attttaatca	gtattttagt	120
aaaacaagga	tgctgagttc	ttgaacactg	cagtcacaaa	ctcaaaactaa	aattttccaaa	180

aaaaggaaag	aaaacactga	actacttggt	caactgaaca	tctgtaataa	taaatgtaac	240
gaaacctaac	caaataaata	tgccactgag	atcacaaactg	aagtgtatgg	tttttagtgt	300
gtgccagaga	cattaaatta	tttaatcagt	ttttgactac	aacccaaagc	aaagcatcct	360
ctctgtttcc	ctgatgattt	attctaaaag	taaccttaaa	aagcagaaac	ttgctgggta	420
aagagaattt	ctg					433

<210> 186
 <211> 377
 <212> DNA
 <213> Homo sapiens

<400> 186						
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acattaggtt	gggtcaattta	aatactgtgg	ctccctgttg	gatagacaca	caatctttac	180
atccaaacat	taatgcatac	aaagcaacaa	ggcattgtta	aataaaaacag	caatagttac	240
tgcaaattag	gccttgtgac	caattacata	tgattaaaat	tacttcccac	attcacatcc	300
acagtnactc	gtccaccatt	taacatctca	ccaannacgt	tacacatgtg	aaacaatcac	360
taacaggcaa	aaatact					377

<210> 187
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 187						
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gtggctgctt	tgtgtctgct	ggagggcatg	ctgctagcca	agtctacagg	ggtttcactt	120
tctatcttca	ggcctccacg	aggctcttca	gcagctgcct	tctcagcctt	tttgggttgt	180
tttttgccct	cagttcttct	ctgtgttgtg	ctgtcactct	gtgcaggaga	tttctgcctc	240
ccacgcgccac	tttctgatcc	cttttggatg	gttttggagt	ctcgtcccgg	agtagcggaa	300
ctcgtttctt	taggtccact	tgtatcagtg	tagctattcc	cagtgccttg	ctctcggcct	360
tcctttttgt	agccttgaga	tgatgggatg	ttactgtcca	ctgaagaggc	ggg	413

<210> 188
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 188						
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ccgcgcgcct	cctccgcgcg	cgcggactcc	ggcagcttta	tcgccagagt	ccctgaactc	120
tcgctttctt	tttaatcccc	tgcctcggat	caccggcgctg	ccccaccatg	tcagacgcag	180
ccgtagacac	cagctccgaa	atcaccacca	aggacttaaa	ggagaagaag	gaagttgtgg	240
aagaggcaga	aaatggaaga	gacgccccctg	ctaacgggaa	tgctaataag	gaaaatgggg	300
agcaggaggc	tgacaatgag	gtagacgaag	aagaggaaga	aggtggggag	gaagaggagg	360
aggaagaaga	aggtgatg					378

<210> 189
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 189						
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tgaagagcaa	agaaattaaa	agagcaaacac	tgaatgaact	ggttgagtat	gtttcaacta	120
atcgtgggtg	aattgttgaa	tcagcgtatt	ctgatatagt	aaaaatgata	agtgctaaca	180
tcttccgtac	acttccctcca	agtataatc	cagattttga	tccagaagag	gatgaacca	240
cgcttgaggc	ctcttggcct	cacatacagt	tggatatga	attcttcttg	agatttttgg	300
agagccctga	tttccagcct	agcattgcaa	aacgatacat	tgatcagaaa	tttgtacaac	360
agctcctgga	gctttttgat	agtgaagatc	ccagagaacg	tgacttctctg	aagactgttc	420
tgcaccgaat	ttatgggaaa	tttcttggat	taagagcatt	catcagaaaa	caaattaaca	480
acatttttct	caggtttata	tatgaaacag	aacatttcaa	tgggttgctg	aacttcttga	540
atatt						545

<210> 190
<211> 648
<212> DNA
<213> Homo sapiens

<400> 190
gggtgtgcga ttgtgtggga cggctctgggg cagcccagca gcggttgacc ctctgcctgc 60
ggggaaggga gtcgccaggg ggccgtcatg gcggtgtcgg agagccagct caagaaaatg 120
gtgtccaagt acaaatacag agacctaaact gtacgtgaaa ctgtcaatgt tattactcta 180
tacaaagatc tcaaacctgt tttggattca tatgttttta acgatggcag ttccagggaa 240
ctaataaacc tcaactggaac aatccctgtg ccttatagag gtaatacata caatattcca 300
atatgcctat ggctactgga cacataccca tataatcccc ctatctgttt tgttaagcct 360
actagttcaa tgactattaa aacaggaaag catgttgatg caaatgggaa gatataatctt 420
ccttatctac atgaatggaa acaccacag tcagacttgt tgggggttat tcaggtcatg 480
attgtggtat ttggagatga acctccagtc ttctctcgtc ctatttcggc atcctatccg 540
ccataccagg caacggggcc accaaatact tcctacatgn ccagcatgcc aggtggaatc 600
tctccatacc catnncgata cncctccant cccagtggtt acccagct 648

<210> 191
<211> 339
<212> DNA
<213> Homo sapiens

<400> 191
gctgtttaag ctcaggctaa agatgatata aatagaggtg caccatccat cacatctgtc 60
acaccaagag gactgtgcag agatgaggaa gacacctctt ttgaatcact ttctaaattc 120
aatgtcaagt ttccacctat ggacaatgac tcaactttct tacatagcac tccagagaga 180
ccgggcatcc ttagtctctgc cagctctgag gcagtgtgcc aagagaaatt taatatggag 240
ttcagagaca acccagggaa ctttgttaaa acagaagaaa ctttatttga aattcagggg 300
attgacccca tagcttcagc tatacaaaac cttaaaaca 339

<210> 192
<211> 252
<212> DNA
<213> Homo sapiens

<400> 192
tgatagtgat ggatggacgc cgctgcactg cgctgcctct tgtaacagcg ttcacctctg 60
caaacagctg gtggagagtg gtgccgccat ttttncctca accataagcg acattgaaac 120
tgctgcagac aagtgtgag ngatggagga aggcacatc cagtgtccc agtttctata 180
tggggtgcag gtgaagctgg gtgtgatgaa caaagggtgtg gcnnatgctc tgtgggacta 240
cgaggcccag aa 252

<210> 193
<211> 272
<212> DNA
<213> Homo sapiens

<400> 193
gacaaacagg actaccgcga gccctcggac ctgtccacct ttgtaaacga gaccaaattc 60
agttcaccca ctgaggagtt ggattacaga aactcctatg aaattgaata tatggagaaa 120
attggctcct ccttacctca ggacgacgat gccccgaaga agcaggcctt gtaccttatg 180
tttgacactt ctcaggagag cctgtgcaag tcatctccc tccgcatgtc agagtccccg 240
acgccgtgtt cagggtcaag ttttgaagag ac 272

<210> 194
<211> 334
<212> DNA
<213> Homo sapiens

<400> 194
gagancctgg aaaaattaac cacatgagan acgatacact agcccagatg ttgacgttgg 60
gaaatatccg tncctggcaac aaaatgattg tnatggaaac gtgtgcaggc ttggtgctgg 120
gtgcaatgat ggaacgaatg ggagggttttg gctccattat tcagctatac cctggaggag 180

gacctgttcg	ggcagcaaca	gcatgttttg	gatttcccaa	atctttttctc	agtgggtcttt	240
atgaattccc	tctcaacaaa	gtgggacagt	cttctacatg	gaacattttc	tgccaagatg	300
ttatcttcag	agccaaaaga	cagtgccttg	gttg			334

<210> 195
 <211> 352
 <212> DNA
 <213> Homo sapiens

<400> 195						
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tatctgtaga	ttcaaaaagg	agcaagccac	attgtcctca	ctgtcaaatg	tgtcaggctt	120
ggcatacatg	atggagatta	atgaagtatc	atgagagtaa	tatggttcct	gaaaagcttc	180
tacaatttgg	agtaggggtct	taatcacgtg	aaaaagcaaa	ctgttcacat	ttagtgaacc	240
tgcatttcat	ggaggggggg	gggtacacan	tattttaatt	ttaaaacaaa	taaaaataat	300
ttgtttgtca	aagattccca	tctccccaac	tttatttgtc	gcattgggtt	tc	352

<210> 196
 <211> 355
 <212> DNA
 <213> Homo sapiens

<400> 196						
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tgaggaaaaag	tatagagaaa	tgatgattgt	tatgaggaca	acagaacttg	tgaacaagga	120
tctggatatt	tattataaga	ctcttgacca	agcaataatg	aaatttcaca	gtatgaaaaat	180
ggaagaaaatc	aataaaaatta	tacgtgacct	gtggcgaagt	acctatcgtg	gacaagatat	240
tgaatacata	gaaatacggg	ctgatgccga	tgaaaatgta	tcagcttctg	ataaaaaggcg	300
gaattataac	taccgagtgg	tgatgctgaa	gggagacaca	gccttgata	tgcca	355

<210> 197
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 197						
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atgattaaca	agcagaatga	gcagatgcat	gogctgctgg	ccattgcccc	cacgatgtac	120
cccatgcgta	ttgatgagag	cattcacctc	cagctgcggg	agaaatatgg	ggacaagatg	180
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aagttcctgt	cgocgttagt	gcccactat	gataatgtgc	accccaacta	ccacaaagag	300
cccttcctgc	agcagctgaa	ggtgttttct	gatgaagtac	agcagcaggc	ccagctttca	360
accatccgca	gcttcctgaa	gctctacacc	aocatgcctg	tgcccaagct	ggctggcttc	420
ctggacctca	cagagcagga	gttccggatc	cagctt			456

<210> 198
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 198						
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acttcgctag	aaaaaaaaaa	cacttggcat	acaaaatatt	taagtgaagg	agaagtctaa	120
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attcagccag	cttaaaccca	tacaatgtat	gtacaatata	atgtacaatt	atgtctcttg	360
agcatcaatc	ttgttactgc	tgattcttgt	aaatcttttt	gcttctactt	tcattctaaa	420
ct						422

<210> 199
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 199

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aggatcactt cagctctggc agtttttggg agctcttctg gatgaccctt caaatctcta 120
ttttattggc tggactgggc gaggcatgga atttaaactg attgagcctg aagaggtggc 180
ccgacgttgg ggcattcaga aaaacaggcc agctatgaac tatgataaac ttagccgttc 240
actccgctat tactatgaga aaggaattat gcaaaaagggtg gctggagaga gatatgtcta 300
caagtttgtg tgtgatccag aagccctttt ctccatggcc tttccagata atcagcgtcc 360
actgctgaag acagacatgg aacgtcacat caacgaggag gacacagtgc ctctttctca 420
ctttgatgag agcatggcct acatgc 446
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<210> 200

<211> 581

<212> DNA

<213> Homo sapiens

<400> 200

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ccctccagtg tcttttaact taatgttcaa gactttcatt gggcctggag gaaacatgcc 180
tgggtacttg agaccagaaa ctgcacaggg gattttcttg aatttcaaac gacttttggg 240
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gagatgctgt tgaacagggt gtgattaata acacagtatt aggctatttc attggccgca 540
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<210> 201

<211> 625

<212> DNA

<213> Homo sapiens

<400> 201

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ccgccccgtc ctggcccaga gcctggagca tgatgagcac tcttgtccct ttaaaaaatc 120
aaagccgcac cccgcctccc tggccagcaa gaaacctaaa agggaaacaa actctgacag 180
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catccacgaa gaggatgagg agaagctctc cgaggacgtg gacgccccct cccactggg 480
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tgatgagtcg tctgtcacc caagcaagg gacccagca gcttccattg agaatgtcct 600
gcangacaag caagnccoga gcaact 625
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<210> 202

<211> 806

<212> DNA

<213> Homo sapiens

<400> 202

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agttaccaat gacaacctg agtgccgcct tgtgaaagaa acccgattt gtgaggtgcg 180
gccttgtgga cagccagtgt acagcagcct gaaaaagggc aagaaatgca gcaagaccaa 240
gaaatcccc gaaccagtca ggtttactta cgctggatgt ttgagtgtga agaaataccg 300
gccccagtac tgccggttcc ccgtggacgg ccgatgtgc acgccccagc tgaccaggac 360
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tgggtgtggg gatgggactc antgtagaaa ggaagccttg ctcantcctg aggananta 660
aggtatttgc aaactgccaa ggggtgctgg gcggatggac actaangcag ccacgattgg 720
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<210> 203
<211> 489
<212> DNA
<213> Homo sapiens

<400> 203
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aagagttttaa gtgtctaaca aacttaaagc tactgtagta cctaaaaagt cagtgttgta 180
catagcataa aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa 240
atacaatttc tgaaagtatt gttttttttc tatcatctgg tataccattg cttttattttt 300
ataaattatt ttctcattgc cattggaata gatattctag attgtgtaga tatgctattt 360
aaataattta tcaggaaata ctgcctgtag agttagtatt tctatttttta tataatgttt 420
gcacactgaa ttgaagaatt gttgggtttt tctttttttt gtttngnntt tttttttttt 480
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<210> 204
<211> 403
<212> DNA
<213> Homo sapiens

<400> 204
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tgatcactgc aggtgtgcca aggcgaagta aaagaattgc aggcacaaaaa gtttgcagag 120
tggaatcagg aaaagcaggc tgcttttctc ctaaaatcaa gccataaaga aaagggttccg 180
aagatctctg ccgtttgaaa ttcaatctag ggaaaaatgg cagagaagta aatgggatgt 240
tctggtgtca ataggatatt gaaagtgttg gttgggcgac ttgcaaatca acaaagttta 300
aaaaatccga attngaattc gtaaaaacag gtttgctttt taagcccagn atgttggatt 360
ggaaaaangt taccanaaga aaggggttca agaaaaagga tca 403

<210> 205
<211> 462
<212> DNA
<213> Homo sapiens

<400> 205
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aaaccttaca aaactcatca aaactcgcaa actgatcaga aaagtttctc ggaagactag 180
aaaaaatact ttattgtctt aatcatgcat tacacaaaaca aaatcttttag ttacaccata 240
aaattaagca catctaaaaa aataaaaacag ggataactag tcaaaaacaca gcagattttc 300
gtatcctgat tcaactattt ttgtatccta tttgtaatgc aaataaaaact ttactccaaa 360
tattttttaa caagttagtt ttgtttggaa tcatggtaaa ccaagatata tatcttaggg 420
ggaaccacct tgggtttgtaa tttaaactat aaaatactcc at 462

<210> 206
<211> 724
<212> DNA
<213> Homo sapiens

<400> 206
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ttcttgctct attaaacgct ggatgcttgc agtaaathtt tctagtgtgt tccctattttc 120
tcgttcacta tgccgtaact taactactct ttcttcaagt tgtactttct gttcttggat 180
ttgcattgct tttttagagt cgttttgcga actgtattcc attttgttta cctcttcttc 240
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agtcattgta cctgactgtt ctatgatttg tccctgtaaa gttaccactc tccatcttct 360
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taaagcaaaa taaaaagctt ggcgaatttt ctcatctttt acttttacta aatcaataaa 480
acgaggagta ttttcaggag tttgaatttc ggtcatcttt ttgcgccata cagccatctt 540
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<212> DNA
<213> Homo sapiens

<400> 211
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acagatgtgc tcatcctccc agaagagggtg gaattggatca aattttaatgt gggcatgaat 180
ggctattaca ttgtgcatta cgaggatgat ggatgggact ctttgactgg ctttttanaa 240
ggaacacaca cagcagccag cagtaatgat cgggcaagtc tcattaacaa tgcatttcag 300
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catgaaactg aaattatgcc cgtgtttcaa ggtttgaatg agctgattcc tatgtataag 420
ttaatggaga aaagagatat gaatgaagtg gaaactcaat tcaaggcctt cctcatcagg 480
ctgctaaggg acctcattga taagcagaca tggacagacg agggctcagt ctacagacaa 540
atgctgcgga gtgaactact actcctcgcc tgtgtgcaca actatcagcc gtgcgtacag 600
agggcagaag gctatttcag aaagtgggag gaatccaatg gaaacttgag cctgcctgtc 660
gacgtgacct tggcagtggt tgctgtgggg gccagagca cagaaggctg ggattttctt 720
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ttcagaaca 789

<210> 212
<211> 457
<212> DNA
<213> Homo sapiens

<400> 212
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ccagggtcgg atccggagcc cttccccgag gggcgggggac ctccaaacaa ccgactcctt 120
tccagctgaa gaaacactta aattctggaa atagcgactc agtatcatgg ccagcagcct 180
taatgaagat ccagaaggaa gcagaatcac ttatgtgaaa ggagaccttt ttgcatgccc 240
gaaaacagac tcttttagccc actgtatcag tgaggattgt cgcattggcg ctgggatagc 300
tgtctctctt aagaagaaat ttggaggggt gcaagaactt ttaaatcaac aaaagaaatc 360
tggagaagtg gctgttctga agagagatgg gcgatataa tattacttga ttacaaagaa 420
aagggtctcg cacaagccaa cttatgaaaa cttacag 457

<210> 213
<211> 727
<212> DNA
<213> Homo sapiens

<400> 213
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tgatgctgag aagtttctgt gataacctgt ccatctctag tttcaaccgt cttaatcaga 120
agtgtccttt ttgagtgggt atcaaccaga gggagtgaat ccagattagt ttccctcagg 180
ttcagggagg aaaagtgttg aagaggcaga gaaatcctgc tctcctcgcc ttccagcagc 240
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tcacgaagggt gacgagccat ttctctcttc atattctgaa tctcatcctg caggcggcca 360
atagtgtctt ggtagttagc agcttcaacg gcaaaagtct cttccatttc acgcatctgg 420
cgttccaggg actcattgggt tcttttaagg gcatccactt cacagggtgag ggactgcacc 480
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gcagcctcag agaggtcagc aaacttggat ttgtaccatt cttctgcctc ctgcaagttc 600
ttggcagcca cactttcatt ttgctgacgt acgtcacgca gggcagcgct gaggtcaagc 660
ttggaacat ccacatcgat ttggacatgc tgttccctgga tctgagcctt gcgcttctgg 720
atttctt 727

<210> 214
<211> 622
<212> DNA
<213> Homo sapiens

<400> 214
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gcttttaagc aaatgcagga cttgtctgca acagagaaac tcaactccaag agcaagaagc 120
caaagaaaga aaaactaaag atgatgaagg agcaactccc attaaaaggc ggcgtgttag 180
cagtgatgag gagcacactg tagacagctg catcagtgac atgaaaacag aaaccagggg 240

ggtcctgacc	ccaacgagca	cttctgacaa	tgagaccaga	gactcctcaa	ttattgatcc	300
aggaactgag	caagatcttc	cttccccctga	aaatagttct	gttaaagaat	accgaatgga	360
agttccatct	tcgtttttcag	aagacatgtc	aaatatcagg	tcacagcatg	cagaagaaca	420
gtccaacaat	ggtagatatg	acgattgtaa	agaattttaa	gacctccact	gttccaagga	480
ttctacccta	gctgaggaag	aatctgagtt	cccttctact	tctatctctg	cagttctgtc	540
tgacttagct	gacttgagaa	gctgtgatgg	ccaagctttg	cccttccagg	accctgaggt	600
tgctttatct	ctcagttgtg	gc				622

<210> 215
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 215						
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acatcataca	aatgtaaata	caaaattact	acagtacaat	atatattctc	tgcatgatcc	120
aaaatatttg	gtggcccca	aaaactctct	ttaaaattca	gcagcttatc	aaaaattaaa	180
accgtattct	atttaaaatg	gagatctgtt	agcacagagt	tagacttcaa	gaaatatcaa	240
tttagtacag	tttgagaagt	tgaggagga	tatgtttgaa	ggacacattc	taacatagtg	300
ttgcaggtac	aggaacatc	agatttaaa	cttttaagca	taactcatac	aacctaaagt	360
gtcagcagaa	agatccagtt	atatttgtaa	ctaaagctaa	tgctactaaa	ttattgcacc	420
caatgttaac	atattaagt	taaaactg				448

<210> 216
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 216						
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ggatcatttt	ctcagaatga	gattttttgtt	ctttcagctt	ttcaataaga	tggttaagat	120
ctgtccagtg	tgtgtcagtc	aactgttcaa	gcagtttttg	aggagtgtcc	ttttctttca	180
aataggcact	ttgaaggcca	tctataggat	gaccatgatg	ttgacctatg	gtaaggcaat	240
gaccacaaac	taatttttta	tctaatagac	agtaaacatt	taatggttgc	ctgtaatgtt	300
cagggcaggt	gacaatatct	ggatgggtctt	cttgctggta	cttttcaata	atagccctta	360
gtgcaaaaatt	aacagggtaaa	gatttcaatgc	cagttggagc	aatttcagta	atacttctgc	420
aattaggggca	cttgagtgga	attcgtaaa	gtctccatat	ataaaagtta	ccagatgcct	480
gaagaatggt	ttccaaaaca	ttctacaaa	atgtatgaga	gcattggcag	acacgaggat	540
cttcaaaaat	actataacat	atggggacaag	ttactcttg	ctcanaattg	tgcat	595

<210> 217
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 217						
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accttactgg	cgatcatgaga	gggctccacc	ttgactcgga	tggggctsgt	gggcgtggcc	120
tggtcagcaa	agaggaccat	aatggtgtag	ctg			153

<210> 218
 <211> 446
 <212> DNA
 <213> Homo sapiens

<400> 218						
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ccccgttgat	cgtccacaac	atacagaatg	gctgtcatgg	tccaatctgt	acagaatacg	120
ccatcaataa	attgcgga	gaaggagcg	aggaggggat	gtacgtgctg	aggtggagct	180
gcaccgactt	tgacaacatc	ctcatgaccg	tcacctgctt	tgagaagtct	gagcaggtgc	240
agggtgccc	gaagcagttc	aagaactttc	agatcgaggt	gcagaagggc	cgctacagtc	300
tgcacggttc	ggaccgcagc	ttccccagct	tgggagacct	catgagccac	ctcaagaagc	360
agatcctgcg	cacggataac	atcagcttca	tgctaaaacg	ctgctgccag	cccaagcccc	420
gagaaatctc	caacctgctg	gtggct				446

<210> 219
<211> 581
<212> DNA
<213> Homo sapiens

<400> 219
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tggggcacttt ggctggtaga ctattttcca tccgagtcct ctcttcagct ttttcggtt 120
gctcagtttt tgggttcact ttcctctcaa actgtgatgc ttcttgagac tgatgggtctg 180
aaggagtagc tgggtctagca gatgatgatg aggtctgggg agtttcctca ctagcttcaa 240
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cttcattatg gctaccctca gagtcagagc actcctcccc ttcgtccaca ggccggaagt 360
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cagatgagtc aaatgtaccc atttcttctt cagcatcctc taagcaccat tcgggcaagc 480
tatcctgtgc atcatctatg cttccactgc cagagcgaac ccgataagac aaataagaaa 540
gaaggagaga aaacagatcc gctagcagat ccgctatccg t 581

<210> 220
<211> 372
<212> DNA
<213> Homo sapiens

<400> 220
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gatgaggaag aagaagatgg aactatgaaa agaaatgcaa cctcaccaca agtacaaaga 120
ccatcttttca tggactactt tgataagcaa gacttcaaga ataagagtca cgaaaactgt 180
aatcagaaca tgcataaacc cttccctatg tccaaaaacg ttttccctgg attaaactggg 240
aaagtctctc caagatggga gactttttga ctttttttgg aaaaatctta agtttttaggn 300
aggaacttac cagggtgcgg gtttaaaaaa gcaacttggga ccccatgggt tggggaacgg 360
gngggttagg ga 372

<210> 221
<211> 448
<212> DNA
<213> Homo sapiens

<400> 221
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tatatttttt ttttacaaga gcacaacagg aaccaaagta aaagagtaat agatacagca 120
ctcaggataa atcatatctt taaaataata ataaaaaaat ttacaccttg tctatatctc 180
tggttagtatt ttcataatat ggccatgatt gaaaaaacia aaagcaagca tctacaattt 240
tttttgataa agacttttta tgccaggaaat ggattaatta ccaacaaaat ttataactaat 300
caggctgatg tcaatctatt ttgtaatgt atcattaaca aatttatctt ggaaaagata 360
aaaatattgc cccttgataa taaatctttt tttcctttga tgcaaacagc tagaacacct 420
ttttcttttt ctttttgata ttctaaga 448

<210> 222
<211> 373
<212> DNA
<213> Homo sapiens

<400> 222
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caccggagga ataatttatg atgttatgtt tgaacctcca agtgtcgggt ctatgactga 120
tgaacatggg catcagaggc cagtagcttt cttggcctac agagtaaatg gacaatatat 180
tatggaagga cttgcatacc gtttcttatt tacaatggga ggattaggtt tcataatctt 240
ggaccgatcg aatgcaccaa atatcccaaa actcaataga ttcttctctt tgttcattgg 300
attcgtctgt gtcctattga gttttttgat ggctagagta ttcattgagaa tgaaactgcc 360
gggctatctg atg 373

<210> 223
<211> 386
<212> DNA

<213> Homo sapiens

<400> 223

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ggcacgaggc ttcaagctac tgcggaaatg catcctgcag atgacccggc ctgtgggtgga 60
gggggtccctg ggcagccctc catttgagaa acctaatatt gagcagggtg tgctgaactt 120
tgtgcagtac aagtttagtc acctgggtcc ccgggagcgg cagacgatgt tcgagctctc 180
aaagatgttc ttgctctgcc ttaactactg gaagcttgag acacctgccc agtttcggca 240
gaggtctcag gctgaggacg tggctaccta caaggtcaat tacaccagat ggctctgtta 300
ctgccacgtg cccagagct gtgatagcct ccccgctac gaaaccactc atgtctttgg 360
gcgaagcctt ctccggtcca ttttca 386
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<210> 224

<211> 593

<212> DNA

<213> Homo sapiens

<400> 224

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ggccaggtta tgattgacaa aaatccagga atcacctcag cagtaataaa aataaataat 120
attgacaata tgtaccgaaa tttccaaatg gaagtgtat ctggagagca gaacatgatg 180
acaaaggttc gagaaaacaa ctacacctat gaatttgatt tttcaaaagt ctattggaat 240
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aataaagtgg accaaaaggt gaaagtcttc aacttggatg ggaaagactt cctccaagga 480
ccagtcaaag aagagttaat gcagctgctg ggtctgtcaa aagaaagaaa accctctgtg 540
cacgttgtca tgaacttgcc agcaaaagct atagagtttc ttagtgcttt caa 593
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<210> 225

<211> 477

<212> DNA

<213> Homo sapiens

<400> 225

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cgtccccgct ctgcctcacc caggatgagt tccaccggt catcgaggcc ctgctgcctc 120
acgtccgcgc cttcgcttac acctggttca acctgcaggc gcggaagcgc aagtacttca 180
agaagcacga gaagcggatg tcgaaggacg aggagcgtgc ggtcaaggac gagctgctgg 240
gcgagaagcc cgaggtcaag cagaagtggg cgtcgcggct gctggccaag ctgcgcaagg 300
acatccggcc cgagtgccgc gaggacttcg tgctgagcat caccggcaag aaggcgccgg 360
gctgcgtgct ctccaacccc gaccagaagg gcaagatgag gcgcacgac tgtctccggc 420
aggcggacaa ggtgtggcgg ctggacctgg tcatggtcat cctgttcaag ggcattcc 477
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<210> 226

<211> 299

<212> DNA

<213> Homo sapiens

<400> 226

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gccaaagctc aataccccat tgctgatttg gtaaagatgc tcaactgagca aggcaaaaaa 60
gtcaggtttg gaattcaccc agttgcaggc cgaatgcctg gncagcttaa tgtgctgctg 120
gctgaggctg gtgtgccata tgacattgtg ttggaaatgg atgagatcaa ccatgatttt 180
ccagatactg atttggtcct tgtaattgga gctaattgaca ctgttaattc agcagctcaa 240
gaagatccca actctattat tgcaggcatg ccagtccttg aggtctggaa atcaaagca 299
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<210> 227

<211> 390

<212> DNA

<213> Homo sapiens

<400> 227

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gagtgaagga gttgaaactt ttcttgtagg tgtacaactc attttgcgcc aattttcaca 60
agtgtttgtc tttgtctgaa tgagaagtga gaaggttttt atactctggg atgcaaccga 120
catgttcaaa tgtttgaaat cccacaatgt tagaccaatc ttaagtttctg taagttattt 180
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cctttaagat	atatattaaa	cagaaatcta	agtagaactg	cattgactaa	ccagtccctc	240
tggatgggtgg	tgaacctgaa	gcatgcttta	acctctaaga	ctgtctaaca	cgcgtttcat	300
tcaatgtctc	cacagactgg	gtagcaaaaa	aatcacctt	tagttttagt	ttttaatcta	360
aagatgttag	acagatgctg	agtgtgcggt				390

<210> 228

<211> 423

<212> DNA

<213> Homo sapiens

<400> 228

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ctccatgctc	tgctctgtat	ctacttggag	cacacagaga	gcattctgaa	ggccatagag	120
gagattgctg	gtgttgggtg	cccagaactg	atcaactctc	ctaaagatgc	atcttcctcc	180
acattcccta	cactgaccag	gcatactttt	gttgttttct	tccgtgtgat	gatggctgaa	240
ctagagaaga	cggtgaaaaa	attgagcctg	gcacagcagc	agactcgcag	cagatttcat	300
gaagagaaac	tcctctactg	ggaacatggg	ctgttcgaga	cttcagtatc	ctcattcaac	360
ttggattaaa	ggtattttga	tagttcatcc	tgttntctggc	atgtatgttt	ggaaggggag	420
gat						423

<210> 229

<211> 417

<212> DNA

<213> Homo sapiens

<400> 229

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caaagaagct	gtactgccaa	gaacttaaaa	aggtgattga	agcctccgat	gttgtcctag	180
aggtgttggg	tgccagagat	cctcttgggt	gcagatgtcc	tcaggtagaa	gaggccattg	240
tccagagtgg	acagaaaaag	ctgggtactta	tattaaataa	atcagatctg	ggtaccaaaag	300
gaggatttgg	gagagctggg	ntaaattatt	ttgaaggaaa	gatttgccca	acagtgggtg	360
tttcagagcc	tcaacaaaaa	cccaaagggt	taaagggggn	ggtttaccct	gggtttc	417

<210> 230

<211> 441

<212> DNA

<213> Homo sapiens

<400> 230

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agcctggacc	ctgccagtga	gccaatcagt	tatgttaact	ttaccattgc	agaacgggca	120
cagagggttg	ttgtatggct	cggtcagaac	tttctgttac	cagaagacac	tcacattcag	180
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ataaaactta	gtggagagat	cactataaat	actgatgata	ttgatttggc	tggtgatatc	300
atccagtcaa	tggcatcatt	ttttgctatt	gaagaccttc	aagtagaagc	ggattttcct	360
gtctattttg	aggggaattac	ggaaagggtc	tagttaagg	ggatgaatat	cctttcagtg	420
cattcagaag	ctccagtgct	t				441

<210> 231

<211> 333

<212> DNA

<213> Homo sapiens

<400> 231

ggtgtcccag	gaagtcagcc	attactcccc	agtgggaatgg	atccaactcg	acaacaagga	60
catccaaaata	tgggtggggc	aatgcagaga	atgactcctc	caagagggaat	ggtgccctta	120
ggaccacaga	actatggagg	tgcaatgaga	ccccactga	atgctttagg	tggccctggg	180
aatgcctggg	aatgaacatg	ggtccaggtg	gtggttagacc	ttggccaaac	ccaacaaatg	240
ccaatttcaa	ttaccatact	ccttcagcat	ctcctgggga	atattattgt	aggtcctcca	300
gggaggttga	ngggccacca	gggnacaccc	ttc			333

<210> 232

<211> 402

<212> DNA

<213> Homo sapiens

<400> 232

ccctttacac	agactcactt	gtcactcact	gccatagagt	acagccacag	ccacgacagg	60
tacctaccag	gtgaaacott	tgtcctgggg	aatagtcttg	cccgtccctt	ggaaccacac	120
tcagactcaa	tggactctgc	ctcaaattcc	accaaccttg	tcagcacctc	ccaaaggcac	180
cggcccttgc	tttcatcctg	tggcctccca	ccaagcactg	cctcagctgt	gcgcaggcta	240
tgctccaggg	ggtcggaccg	atacctggga	gagccgcgat	gcctcttcga	ctgagtggcc	300
gggacccctt	ccttcattgg	acagttcgag	gatgttgatt	gcagttttgt	tccggggaag	360
gttgattcct	caggtttggg	accccaaggt	tgaacctgtt	tt		402

<210> 233

<211> 492

<212> DNA

<213> Homo sapiens

<400> 233

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<211> 321

<212> DNA

<213> Homo sapiens

<400> 234

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<210> 235

<211> 359

<212> DNA

<213> Homo sapiens

<400> 235

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acactggaca	tgaaaaacaaa	gactggttta	gcagcagaca	ttggtttact	ctgcagcctg	300
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<210> 236

<211> 306

<212> DNA

<213> Homo sapiens

<400> 236

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gtnttc 306

<210> 237
<211> 395
<212> DNA
<213> Homo sapiens

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<210> 238
<211> 440
<212> DNA
<213> Homo sapiens

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<211> 507
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gcgaggang 369

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<211> 248
<212> DNA
<213> Homo sapiens

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gatgaaatcc attagaacaa taaaaatttc atcttgagaa atagccacaa tgaaagtaat 180
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atacacia 248

<210> 242
<211> 288
<212> DNA
<213> Homo sapiens

<400> 242
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<212> DNA
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<400> 244
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<210> 245
<211> 2533
<212> DNA
<213> Homo sapiens

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<211> 6072

<212> DNA

<213> Homo sapiens

<400> 246

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 LIBRARY
 540 EAST 57TH STREET
 CHICAGO, ILL. 60637
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<212> DNA

<213> Homo sapiens

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<210> 320

<211> 359

<212> DNA

<213> Homo sapiens

<400> 320

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gaggccaaga aactggccca cgccatgatg gaggccttca ggaagacttt ccacagtatg 180
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tccgatgatg gctgaatgaa ctttnagacg cttnagcaaa ggcagcattg gtcacggggg 300
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<210> 321

<211> 295

<212> DNA

<213> Homo sapiens

<400> 321

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gaggaagctt cgggaggagc gccaccagga atacttgaag atgctggcag agagagaaga 240
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<210> 322

<211> 406

<212> DNA

<213> Homo sapiens

<400> 322

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cagagggtca aacgagggcg ctgcccctac cactacgtgn aggtcatggc ctgcccctca 360
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<210> 323

<211> 489

<212> DNA

<213> Homo sapiens

<400> 323

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tggttgctagg	gaacacatga	gcaaaaatcta	tcattcgcac	ttctactcca	gcaatctctt	360
ggcaaccagt	gggaagatgg	tagaaaaactt	tntccagttg	ggaaagtaca	tttccattta	420
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<210> 324

<211> 491

<212> DNA

<213> Homo sapiens

<400> 324

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gacttcaatt	gaaagtgatc	caaattctag	caggtccata	ttaacagtca	acaactatgt	360
tataaaaaca	aatgatctca	caataataaa	aagaaagctg	gttcataact	ctgaaaccat	420
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caacactata	c					491

<210> 325

<211> 546

<212> DNA

<213> Homo sapiens

<400> 325

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tccaccogag	attttccaga	tgatgtcatc	agtttcatat	agcggcactc	tgtgatgtat	420
aagtccgtat	accagtttgc	aggaggacca	acgttcaaga	gaatcaatgt	ggattacaga	480
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<210> 326

<211> 456

<212> DNA

<213> Homo sapiens

<400> 326

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<210> 327

<211> 462

<212> DNA

<213> Homo sapiens

<400> 327

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<210> 328

<211> 457

<212> DNA

<213> Homo sapiens

<400> 328

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<210> 329

<211> 448

<212> DNA

<213> Homo sapiens

<400> 329

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ctcaggataa	atcatatctt	taaaataata	ataaaaaaat	ttacaccttg	tcctatatoc	180
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<210> 330

<211> 373

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 306

<212> DNA

<213> Homo sapiens

<400> 331

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<210> 332
<211> 626
<212> DNA
<213> Homo sapiens

<400> 332
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<210> 333
<211> 4898
<212> DNA
<213> Homo sapiens

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<211> 429

<212> DNA

<213> Homo sapiens

<400> 334

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<211> 411

<212> DNA

<213> Homo sapiens

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<213> Ratte

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ttcgtgtcac tgaccagctg ggcgaagatt tctttgctgt agacctgaa gctttctgc 180
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<213> Ratte

<400> 343
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taggaaagag tgaagaagaa gcactcaaac agtttaagca gaagtttgat gaggcactca 180
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cttagcgtcc gctct 255

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<212> DNA
<213> Ratte

<400> 344
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ctattgatca agtgattaaa gcagtaagaa aaatctgtag tgcttttagat ggggttgaga 180
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aaagtgtgta tgtga 255

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<212> DNA
<213> Ratte

<400> 345
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gaatctgcat aaaatggagt atccccact aacatctcaa aaaggaaaac acctacagac 180
caccaatcac attctcgtcc atagtaacca tcacctcctt gtgatttcag aacctcaggt 240
gatatgtagt 250

<210> 346
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<212> DNA
<213> Ratte

<400> 346
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gggctgtaat aaataaaaaag tttattaaca aggaatgcac ttttccagcc acaagtgtat 180
tcaaaaaata ccaaaaaaaaa aatatgtatg gccatagttc acagttaagc agccaaacaa 240
aagctgctct gattg 255

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<211> 255
<212> DNA
<213> Ratte

<400> 347
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actgaaattt ccaacacaga tgtggaaacc cagcctggga aaacagtgat ccgactgccg 180
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atttctgcct cagga 255

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<211> 250
<212> DNA
<213> Ratte

<400> 348
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gtctgttgcc aagagaacac agtcttccag ccgagcaaac tgctccaggt ttctgagcct 180
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cccagagggg 250

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<212> DNA
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ttgacagcgt cctgaaggga aaggaaggga tagtcagggt ctacactagg caatagtga 240
gccaacaggc ctggt 255

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<213> Ratte

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aatccattat catttaagac cagataaatt acatggctaa ccagctgtcc agtgctgagc 180
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gtggtcacgc ctctc 255

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<212> DNA
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<400> 351
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ctattttcatc tgggtggccaa aaaagagtga cttcaaggcg ttcagcagat atgcagtctt 120
caaatacaga catttctttt aaaaccagga aaaggctaaa cttcgaagat aaagtatttt 180
cgaacacagc agaaatagag agcagtgcat cacaagtaga ggatagcata tccgaggaac 240
aagaagggac atcat 255

<210> 352
<211> 109
<212> DNA
<213> Ratte

<400> 352
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tcagcatcgg atcgaatttc tatgtattca atatcttgcc cacgatagg 109

<210> 353
<211> 251
<212> DNA
<213> Ratte

<400> 353
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aagaggtggc ccgacgttgg ggcattcaga agaacaggcc agctatgaac tatgacaaac 180
ttagccgttc tctccgtat tattatgaga agggaatcat gcaaaagggtg gctggagata 240
gatatgtcta c 251

<210> 354
<211> 255
<212> DNA
<213> Ratte

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aacataaacc atcactcttg ggggaaggga ggtggcaggg tgggccacgg ctcacttgaa 120
tggggtgggg ggagattaag aagtcccacc ccactgccta gctgagataa gattacatcc 180
ctaacactgt gtataaatat ctcccttatat taaaacaatt tttcagggtc cacttcactc 240
tacctcaagc tggga 255

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<211> 255
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<400> 355
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aaagggaagt caagaagtca ctgcctccta caatggggtc gatggatgct tgagctccac 120
attggagcat cagggtggctt ccacacaacca gtcttcaaata aaaaacaaga aagtggaggt 180
gattgacctt accattgaca gttcatcaga tgaagaggag gaagaacccc ctgccaaagag 240
gacctgtcct tccct 255

<210> 356
<211> 199
<212> DNA
<213> Ratte

<400> 356
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gaggctgggt ccaactgcct tgtcaaatat gggactcaag tgtatgcacc tctcaaagaa 120
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gatactttac aacgactga 199

<210> 357

<211> 255
<212> DNA
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<400> 357
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gtgccttgaa agttcctccc tcacctacac agtagtcgtc atgtcgagac ctgccagaga 120
gagacacatt ctcaagtga tcttggttc ttggaagcgc ttgcctagac gagacacagt 180
gcattaaaac aacttttggg ggacaggtat gtttttcttg cagctgcagt tgtaaggtct 240
tggcaagacg agcag 255

<210> 358
<211> 255
<212> DNA
<213> Ratte

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aaggtgcagc tgatttcacg gagcactttg aaacaccaga tctcaaagat gaacccatag 180
gtgatgatga aactaaagtc ctttgcaaat cccacacaacc caaaacagag aacctcaagg 240
caagcgcaaa gccac 255

<210> 359
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<213> Ratte

<400> 359
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gttttcyctc gtggccgggt tttttgttt ttggtctann nnnnnannga aannannnaa 120
ngaaaccccn tcactaattt tttcwwanat actaaaatat ccaacygmag aatcatttc 180
ggcacatccc gacctccgat ctccctgttt ttaataactg tagaaaagca tctgtgtcca 240
cttgttggcc gaaga 255

<210> 360
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<212> DNA
<213> Ratte

<400> 360
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ccgcttcaat ttcttcacac tgatgaattc ttttgctgtt aacacacaaa ttcacctgtt 120
gggcttggct gctaaaacat tctaccgaat gacgggtaca ttttcttcat ctactttgca 180
aacaacgaac acctgcgcc gcaccattt tccgctgtaa tttatgtgtg gatgaactga 240
tgcgtgactc cccac 255

<210> 361
<211> 255
<212> DNA
<213> Ratte

<400> 361
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atgctagctt agttgttgaa agagtattca agagttccaa cagggagatc actgcaattg 120
aaagcagtgt gcctatccag ctgctggagt cagtgttaca ggaactgaag ggtttgcagg 180
aatttctaga cagaaattct cagttttcag gaggaccact aggaaatcca aataccactg 240
ccaaagtga gcaga 255

<210> 362
<211> 255
<212> DNA
<213> Ratte

<400> 362
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 tcctagacca caaccatgt tgaacaagg cagggcctgt tccgggtcct acctccagc 180
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 gcagctctgt tctt 255

<210> 363
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 <212> DNA
 <213> Ratte

<400> 363
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 acgtgaagga ggccgcctcc atcctgcagg agttacaggt ggaaacctat ggggtctatgg 180
 agaagaagga gcgagtggag tttattctgg agcagatgag gctctgccta gccgtgaagg 240
 attacattcg cacac 255

<210> 364
 <211> 255
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 ctggtctgga accatgactc agaagaaact gaaggtgttc acgaggtgtt cagtcggaac 180
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 gctttctatt ctgac 255

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 <212> DNA
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<400> 365
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 caagacgcgc tccttttgat ctatttgaaa acagaaagaa aaagaacaac atcaagttgt 240
 atgttcgcag agttt 255

<210> 366
 <211> 251
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ctctcatttc tgctggccag agaggggaaga ggggtggcagc tattactgca atcacaagaa 240
ttaatcccat gacaa 255

<210> 368
<211> 255
<212> DNA
<213> Ratte

<400> 368
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gcccagcaaa cagtgggaatt tggaggagtg aggygagagc cttcggggag ttaagcacag 120
gacagcaggt ggggaataagc caggatgagg ctccatnhnc aactcccca ggacaagaca 180
gccagcaaaa catgtgtcag gtgcagcagc actctcagtg ccgggggcac ttgggtgggc 240
ttgggggata cctgg 255

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<211> 255
<212> DNA
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gagctcaaat tgaccgacta tcgtgggaa kacttnnttw tgggcttcta cccactggat 180
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tctataaata ctgaa 255

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<211> 255
<212> DNA
<213> Ratte

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attttatgcc cattg 255

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<211> 255
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ccatcaaat tcaacagaga agttattcag agtgatagtc tgtggcttgt agaattttat 120
gcaccatggt gtggtcattg ccaaagggtta acaccagagt ggaagaaagc agcaagtgc 180
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cagtatggtg tccag 255

<210> 372
<211> 255
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<400> 372
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ggcgtaaacc ctaagcaaag gaactccgtt cactcactg ccgcacatta gaaatgaagc 240
aatcagagct caaca 255

<210> 373

<211> 255
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tgccctatga tattgtgcta gaaatggatg agatcaacag tgatttcca gataccgac 180
tggttcttgt cattggagct aatgacaccg tgaattcagc ggctcaggaa gacccaatt 240
ctattattgc aggc 255

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<211> 232
<212> DNA
<213> Ratte

<400> 374
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gagtttctgg attacaaaca ccaactggagc gacgtgttaa ntggcctcat tcaaggagct 180
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<210> 375
<211> 255
<212> DNA
<213> Ratte

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ttggatagct cgtaattaag aacggagaaa gaacaacaaa gacatatctt ccagtttttt 180
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accgattaaa tcttt 255

<210> 376
<211> 255
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<400> 376
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tagacttaat aaaat 255

<210> 377
<211> 251
<212> DNA
<213> Ratte

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tgaacctgtc tgtgtccat gcttttgggt atctacatga gttcaccgac ctcaatctgg 120
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ccacagacac c 251

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<211> 255
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<400> 378

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cagtttctgta gtaataatcc aattttataa tttgcctttg caaatctgpc tgaagctaca 180
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agaggagggt aaagt 255

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tcaatgctgt 250

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<212> DNA
<213> Ratte

<400> 380
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ccatgggcga ccgattcacg gatgaggagg tggacgagat g 221

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<400> 381
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tcctcttcgc caccaccctc ttctccataa tagaagacat gtccacgagt gtcctctct 180
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agaagggtca gtaga 255

<210> 382
<211> 255
<212> DNA
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aacatattcg ttgcaacagc taactttgtg ttttcattgt tttttatggt ttgttttgtt 180
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tttactattt atagc 255

<210> 383
<211> 255
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<400> 383
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tgctcctcag aggacagttc tggagtgaag ggagtgtgta cccagtataa aaagaaggaa 180
gaaatgttga aaaagtatag aaacgccatg ttaaagagca tctgtgaggt tcttgatcta 240

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<211> 255
<212> DNA
<213> Ratte

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gagacttctt ctggg 255

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<213> Ratte

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gatttactta tgcaggatgc tccagtgtga agaaataccg gcccaaatac tgcggctcct 120
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acaactgccc gcac 255

<210> 386
<211> 255
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gagttcacca gacaagctga ggtgacctc ttggggcacc caggcaagct gatcctgaag 180
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cgagtgccac agatt 255

<210> 387
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<212> DNA
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<400> 387
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ctccagagca gaaggcttaa gggtgaaatg accatcaga aatggagggt ctgctaacat 180
cactgggggtg tggattgacc ttggtagaga gacacttggt ggcttgggct ggatggaaa 240
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<210> 388
<211> 255
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<213> Ratte

<400> 388
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gacaggctat ttgcatgaca atgacacacg gttctcactt cggtaggggtg ttttctccca 180
cagcagttag gaaccagat ttaaatattg gtgctattgt aatccttttt gtttttttac 240
agaagaaaat gagat 255

<210> 389
<211> 255

<212> DNA
<213> Ratte

<400> 389
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cttggggcag gaggcgagta tccggttggc agaggagcag aggcaggctc gaatgaaacc 180
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agctggccct gctgg 255

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<400> 390
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gcttctcttc ccagatccac aacaatggcc aatctgactt ccgcccgaag aatggccgcc 180
atgcatggat ttggcatgac tgccacaggc actaccacag catggaagta ttcacttact 240
atgacctctc gagcc 255

<210> 391
<211> 255
<212> DNA
<213> Ratte

<400> 391
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agcatcttca agcacaaact ggacaagacc taccacaag gctatccga gtccctgatc 120
aagcagctgg gccacttctt cagatacgtt agccctgagg acatccggca gtggaaatgtg 180
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caggtgattg ccttg 255

<210> 392
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<212> DNA
<213> Ratte

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aggttttagc actgggcaaaa taaaactact agcaagaatg aagttatagt gtgaaaagct 180
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aaagtcatag ttgga 255

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<400> 393
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gctgtgacca ccaccctgca ggtccacgac tgcatccagg ttatcaggga tggcattcca 180
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ccagaacttg 250

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<400> 394

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 gggggcagaa tcacactagc cgtgaaccca cttggatgat tgatgtttta ttcattgctgt 180
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 acagggggct ctgtc 255

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 catgtatttg gcaagaaaact gtaacagaat ggggaggaaa ataagtaacg cttcaaaaag 180
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 ccgtccaca ccaaacaggc ggtgagcatg tttgtgcaag ccgtggaaga agcaaaagaaa 180
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 cccaccattg tgact 255

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 gcaaaaccta tgatccactg attaagtcca cccgagactt ccagatgat gttatcagtt 180
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 tcaagagaat taacg 255

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 tgaggcaaaag atatctgaag caagcaggtc gttngctgaa gactgacaaa aggaaggagg 180
 gagaagagtt attcagcaag agggaaaaca cagcttctgt ctcactccta ctaacaaccc 240
 aaagctaaca gccat 255

<210> 399
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 ttcaaaagaca aagggaatatg cagaggcccc ttggcagtggt gtctgtcctt ccacagcagg 180
 ggaggaaaac caagaaaaga gctgccacat cctccaccca gtcccacccg tcccctttga 240

cagcaggact cagtg

255

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tgtcgctacc gctactgcca gcaccgatgc gtgaacctgc caggctcttt ccgatgccag 180
tgtgagcccc gcttccagtt gggacctaac aaccgctctt gtgtggaagt gaacgagtgt 240
gacatgggag 255

<210> 401
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<212> DNA
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<400> 401
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gatacagctg cagatgggtgg agcacgtcag gatcagaaac cagaatcctc tatcaagtct 180
ggagacgagg agcattaaga gcaatgatga cgacagtaac aatagtata atgaccatga 240
ggatgctgag gacca 255

<210> 402
<211> 254
<212> DNA
<213> Ratte

<400> 402
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tattccaggt acccaggaga ccaatagtcc caagaccccc tccctctttc cctgtgcctc 180
aggggccttc agcagcttcc gcgtgggtcat ccgccccttc tacctacca actccactga 240
cacggagtag atgg 255

<210> 403
<211> 255
<212> DNA
<213> Ratte

<400> 403
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tacatgtgac ccagtgcata tgaagagttt aagagataaa gggaggggaa ggggaaaatt 120
taaaacatag tgggggaatg ggggagactg ttgtaacggg agncaccctg tgaggtggct 180
gaagggtgaa gaaagcactt gaatttttcc caaataaggg aggatggagg gaaacaacct 240
gtnttcaaaa atggt 255

<210> 404
<211> 255
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<400> 404
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cctccatgtc caaatggact tgaagagtat tgctgacaga agcaccagag attctagcta 120
gtcctaaagc aatagcaggc aaagggaattc ccaaacagga atctgggaact ggaaatctcc 180
atatcttttt ggaagtggga atgaagagcc atatataaat aaagatgtta tttctgaaca 240
atttcaattg tccc 255

<210> 405

<211> 255
<212> DNA
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<400> 405
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gccagagaat gacgttcatg tccccgtgga caccctgcag agagtacatg gagccgctgc 120
ccccggtggt gatggaaagc aaggtcttct tattctggaa aggacccttg tcatacatgg 180
tggcatacgt gtaggcgaat cctgctacaa gcactctctc aaaccagcct ttcagaatgg 240
cgggcacccc aaacc 255

<210> 406
<211> 255
<212> DNA
<213> Ratte

<400> 406
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gagaggatct aaaactatct ttctgtataa atattatttg ccaaaaagttt gtttatattc 120
agaagtctga ctatgatgga taaatcttaa atgctttgtt taattacaaa aacaaaatca 180
ccaatatcca agacaggaag atatcagttc aacagcttac tgaagttagg aaactaactc 240
cactcgtatg ggaac 255

<210> 407
<211> 255
<212> DNA
<213> Ratte

<400> 407
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atTTTTtTaT ataaatgtta tgattgagga ccacatgcat agaaaaatgg tgcaaaaacc 120
gagacagtat catcagcttt atcaactgta accatgggtt ggttcttccg ggccagtcctc 180
agtctgttaa gaggcagaaa aatttggaag tgttacctca cagaggcacg ggtctttttg 240
cagttgccaa cctgc 255

<210> 408
<211> 255
<212> DNA
<213> Ratte

<400> 408
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ctcaaagctc cctcaccatg gccgtgcgtt cttcatcctt gcggcttaag gtcccaccac 120
tcttcccttt gcatattccc tttggagaac agcaagggtga gcttccttag cataccaccc 180
cagggaatga tgcagagtta gcaatagacg caaatgaact ttcccaggaa atcactttctc 240
agaccacaaa agtgt 255

<210> 409
<211> 255
<212> DNA
<213> Ratte

<400> 409
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tacagataga gtgtccatag ttttaaggcga aattacagct cagaactgtt gtcctttcta 120
atTTTgtGga agcttctttg acaaatataa aaataaaata agagagactc agatgttcat 180
aacacataga cgattttccct tcattgtaag ttcactgtgg acttttcttc catttaaata 240
tttcgtgtgc caagt 255

<210> 410
<211> 255
<212> DNA
<213> Ratte

<400> 410
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cttccccgatt cgagcacagg cgcgcgaaaa tccgcacagg cgagtagaga aaatggcaga 120
cgatattgat attgaagcaa tgcttgaggc cccttacaag aaggtgagaa aacatgctag 180
ngagctgcaa tatatttctt aatttagcat tattcacgaa actactgctg aaatgtaaac 240
taaccttccc ggagc 255

<210> 411
<211> 237
<212> DNA
<213> Ratte

<400> 411
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ggatgagttt tactgtcatt aaaaatattg gaaagcacia gtattagtat ctgtcgtgaa 120
aaaccaattt tagtcagagg cgtgtttgtg cccaattagg tatcatgtat gtagttgtaa 180
ggatgtagaa ctcaaatac acagggtctt gcccagagac accgagttca acagtgg 237

<210> 412
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<212> DNA
<213> Ratte

<400> 412
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gaaataacca tccagcagct aatggctcat ttggattcca tcagaaaaga catgggtcatc 120
ctagagaaaa gtgaatttgc aaatctgaga gcagagaatg agaaaatgaa aattgaacta 180
gatcaagtta agcagcagct gattaatgaa accagtcgaa tcagagcaga caataggctg 240
gacatcaacc tggag 255

<210> 413
<211> 255
<212> DNA
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<400> 413
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gataaatcat atcttttaaa taataaaaaa aaatttacac cttgtcctat atcctgttag 180
tattttcata tgggcatgat tgaaaaaaa aaaaacaaca acaaaaaagc aagcatttac 240
aatttttttt tcgat 255

<210> 414
<211> 255
<212> DNA
<213> Ratte

<400> 414
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ttcccacact acctgtatgg actggccggt gctcctctga acgtattatt agtgtaactc 180
tttattttgt gtatttgtaa catcatgtgt gtgattgcct ttgttaagggt tgtctgagga 240
gtatgggctg acagg 255

<210> 415
<211> 250
<212> DNA
<213> Ratte

<400> 415
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gaagtcagcc attactcccc agtggaatgg acccaacacg acaacaagga catccaaata 120
tgggcccagc gatgcagaga atgactcccc caagaggaat ggtgccccta ggaccacaga 180
actatggagg tgcaatgaga cccccactga atgcttttagg tggccccgga atgcctggaa 240

tgaacatggg

250

<210> 416

<211> 255

<212> DNA

<213> Ratte

<400> 416

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catctacttg gagcacacag acaatgttct gaaggccata gaggagatca ctgggtgttg 180
tgtcccagaa ctgggtcaatg ctccgaaaga tgccctcctt tctacatcc ccacgttgac 240
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<210> 417

<211> 255

<212> DNA

<213> Ratte

<400> 417

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gtcacgtctt ccgcattggc cctcgtcttc ccagtaacgg catggatatg ggctacaatg 180
ggaataagac tccaaggagc caggtgttca agcctttgga attgcttttg cactctctgg 240
atgagtgggtt ggttt 255
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<210> 418

<211> 250

<212> DNA

<213> Ratte

<400> 418

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tttgctccct ccctagtcca ttgccagacc caggaagaag gctcatgtct gcactggggc 180
gatcacagaa atgcctgttg tcaggggatt gtggggagca gtggcttgc tggggtagag 240
ggcagaaggc 255
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<210> 419

<211> 255

<212> DNA

<213> Ratte

<400> 419

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ggacattccg ggtttctgca gtgggttaaag aaagacacac tcaaactatg cctggatgat 120
ggaagctgct cactcaggcg ataggngatc aatccacttt ttctttgggt nggactagaa 180
gatgaggggtg gagtaagcag gaaggggata gatcctggaa gaattgtctg gaattttcca 240
gagatatcag taata 255
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<210> 420

<211> 255

<212> DNA

<213> Ratte

<400> 420

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aagagaaaac caaacacaaa gatggaagct cagacaaaca taaagacaaa cataaagaca 120
gagacaagga aaaacgaaaag gaggaaaaga ttagagctgc tggggatgca aaaataaaga 180
aggagaagga aaatggcttc tctagtccac cacgaattaa agacgagcct gaagatgatg 240
gctattttgc tcctc 255
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<210> 421

<211> 255
<212> DNA
<213> Ratte

<400> 421
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acagcgagct aattttaaggc aaaaacctcc gtccctaga gctattatag atggaattat 180
tttagcattt ggaattaagc caatgaagag agaatttggt tgtggattta atttggttgt 240
ggattttttt caggt 255

<210> 422
<211> 255
<212> DNA
<213> Ratte

<400> 422
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agtaatttcc ttggaagtcc ctgtggcagg tcagagaaat ggaaataaaa gttactataa 120
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caattaatct ttttc 255

<210> 423
<211> 255
<212> DNA
<213> Ratte

<400> 423
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tgctcacaga ctcat 255

<210> 424
<211> 255
<212> DNA
<213> Ratte

<400> 424
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tcgggcattt ctgtg 255

<210> 425
<211> 255
<212> DNA
<213> Ratte

<400> 425
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cccaaaacat taagatttta aaagactaaa agtagtgagg gaaaaaaaaa caataaaaaat 120
tgcaagcaga gacttaacta agagttttac aattaaaaaa aataccaaat ttaaagtatg 180
tcagttttat agaacttgta atttggactg caaaaggaat gcttaaggaa ttcacttctc 240
tcgctcagta ttttt 255

<210> 426
<211> 255
<212> DNA
<213> Ratte

<400> 426
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actctagttg caaggtcaaa ggcagcttat gatcccttga gttaaaaaat aaatgggtgac 120
ctgtcatcta tgaccttaaa ctggcagcaa gaaaactagc agaggtgtgc aactgtctgg 180
tagtggagta atggctttct ttctatgtcc ttgagcttga tctatgcaga agagagtaga 240
ccattaaggg aagag 255

<210> 427
<211> 255
<212> DNA
<213> Ratte

<400> 427
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atcatggcca tcctatagat gaccttcaaa gtgcctatct gaaagaaaag gatacacctc 180
agaagttgtt taaacagtta accgacacac actggacaga tatcactcgc cttattgaaa 240
agcttgaaga acaga 255

<210> 428
<211> 255
<212> DNA
<213> Ratte

<400> 428
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tcaaaagaat ccaagaattt gctctctacc ctaccagta gtgtgatggc atcactagt 120
ccaggtatag gactaaagt agtattaggt tgaatattga tgtagactct ttgtgtgtcc 180
tatacctctt aatgcataaa ttcttaaatt tgtctttaga gtccagttgg cctgttaatt 240
gtgaatttcc tttga 255

<210> 429
<211> 250
<212> DNA
<213> Ratte

<400> 429
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aacagaatgg aacaagagaa tgccctctgc caacggtoct ggcttgcaga gatatgccgc 120
agtgcacctt cccacagaaa gagacacaca cacacacaca cacacacaca 180
cacacacaca caccaaggaa agcctccaaa aagagattct cactgtaagg aaggatgtaa 240
agaaaataga 250

<210> 430
<211> 249
<212> DNA
<213> Ratte

<400> 430
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aagtttttaa gttgttttta tnttaaaaag ccattcagtaa taatctggaa ttttttactt 120
ttaaagctgc tttagcctcaa ttttaacaga ttctgaaatg tcttaattga tgtaattagt 180
gaacttaatt actctattac tgttttcttt aaagcattta ataaatacct gttgactgcc 240
taggaagag 249

<210> 431
<211> 255
<212> DNA
<213> Ratte

<400> 431
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actggcagaa acacaggaat aaatatctct ataaagtggc tatcctaaaa atacttgtga 120
cgattatctg aatcatttgg tcctaaaaaa tggttgcttta aaaatcaagt tcagcctaatt 180

tggaggtaaaa tttaatcata tccagcactg gaatatTTTTA tcttgcTttt ggctgtaggt 240
tatactttttg tggct 255

<210> 432
<211> 255
<212> DNA
<213> Ratte

<400> 432
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acatttgaca tcccgttgag gaggggaaag gctgaagatg gcactggggg acacctgtgg 180
catctagacc ccattgtatac cggcgtatga ctttagggca catgtgcttg ggcggagacg 240
tggtaggcga cagga 255

<210> 433
<211> 255
<212> DNA
<213> Ratte

<400> 433
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tgtaggggtc caggaagaat caatgcctcc aacagtggac aaataactaaa agtccttaca 120
gcaaaccata tgttgtttagc ctctgtggtta ctgcttaact gcaaacctgt tgagtaatca 180
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<213> Ratte

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tagaaactat agcaa 255

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<211> 255
<212> DNA
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<400> 435
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agtctagaag gaaaaacaaa gccaccgtca agaccctgtg gagttgaaga ggacacggaa 180
acgtctcaat gaggtaatcc ttccactgtc tctaaaagtc cgacagaaac tgagtgaact 240
cacgaggaca gattt 255

<210> 436
<211> 255
<212> DNA
<213> Ratte

<400> 436
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gtggaaaccg ttggagatga aatcgtggac ctcacctgtg aatctttaga gcctgtgggt 180
gtggacctga ctcacaatga ctctgttgtg attgttgaag aaaggagaag gccaaaggaga 240
aatgggagga ggtta 255

<210> 437

<211> 255
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<400> 437
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atacagcagg gaact 255

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<212> DNA
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<400> 438
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atcacaacgt gcat 255

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<400> 439
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aggcttattt agccaaaaga gtttccttgt tttgggtttt agtgttgaaa atgaatgtaa 240
tattgtaaac atcat 255

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<400> 440
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tagggaaagg gatgttgaac gaattagggt tgcaaagggg ccggaacttt tgtttgtctg 240
tttgttctgt tttgt 255

<210> 441
<211> 255
<212> DNA
<213> Ratte

<400> 441
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gtttgtctatt ttccaggag ggttttttta agtacaaatt tctataaaaag tgtttccatt 120
atattagcac nccctaccg ataaatcaca tgatttttgt ttcaaatttc aacottaaaa 180
ctacottcaa ccgtgcttat cctatcaaaa tattatactc taaagacatt tgaaacctaa 240
aactgctcat tgtat 255

<210> 442
<211> 255
<212> DNA
<213> Ratte

<400> 442
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 gctaagaagg aatcatttag tgttaaagtt ttattggaat ttggccaggc agtcnatgct 180
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 aatgattcct atatg 255

<210> 443
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 <212> DNA
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<400> 443
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 cgaagtggat gcccttaaag gcactaatga gtccctggag cgccagatgc gtgaaatgga 180
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 gatccagaac atgaa 255

<210> 444
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 <212> DNA
 <213> Ratte

<400> 444
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 tataacatag ttgttgactc tgtaataaat ggacatgcta ggatctggat cactttcaat 180
 tgaagtcagg gtattgtgca tagtgagtaa aaagtgttgg gactgaaaat tgattaccac 240
 agaaggccaa tgcct 255

<210> 445
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<400> 445
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 gagagaggag gggggacaga cagacagaca ggggtgacttt ggggtgtgaga tatggatgct 180
 atgtaggcca cactggccta gaactaaaaa atctgcctgt ctctgtgtcc cagttgctag 240
 gattaggtat ccgct 255

<210> 446
 <211> 255
 <212> DNA
 <213> Ratte

<400> 446
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 gaggcctgt ctcaaataca aacaaaagtg ggggtggagg gaggagtggg gaatatgtgt 120
 ctgagagtaa ttccatctct agaaacagtc agtctcaggt cagtctgtgt gggtaggagg 180
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 gaaagccagt taatt 255

<210> 447
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 <212> DNA
 <213> Ratte

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 ccaaaacaag tctctcaaaa gaaataactt taaaatgtca cattccctct ccacacagga 180

ttcatagtga ggggtataatt acaattcatc cttctctgta ggttcctttt ctgtttcctg 240
ttctttcttct tcttc 255

<210> 448
<211> 255
<212> DNA
<213> Ratte

<400> 448
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ccctgactgg agtggcaagg aggtgttctg agctgagcgg ctgttcgggc accagcagcc 120
actctgacag ggcagacaga gcaggagtgc attggtgtct ctagggaactg ctggcctttg 180
agctgctgac cttccctccc tcccatagag gcttggaag gaaaatgagc gggcagcatt 240
aagagctgct agtga 255

<210> 449
<211> 255
<212> DNA
<213> Ratte

<400> 449
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aaccacaaaaa aaaaataaaaa ataaaaataaa ataaaaaaat gtgttttcgg atgttcaaat 120
ttcctctcta agcgcaggta agaaaaaaa gagcaaatat attaagtcaa ccaattttta 180
aaagtgcatt ttacctttat aacaatgaaa attacaaca aacccaaaat accgaccctt 240
aaccccaaag acaaa 255

<210> 450
<211> 255
<212> DNA
<213> Ratte

<400> 450
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gctggccgaa ggttgctttg aaaatcaagt gtttcatgcc aatgcctttg gatttcctcc 120
cacggagccc tctagacca caagggcata ctatggaaat attaattttt ttggaggggc 180
ttctaattgcg tcagtgaagg cttctgcaaa actgagacag ctggaagagg agaacaagga 240
cgccatgttt gtgat 255

<210> 451
<211> 255
<212> DNA
<213> Ratte

<400> 451
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ttcttgatcc aaaattcttt actcagtcac acaacaaatg aggtaatatt tgtatataag 120
ttccaccttt gtctcttttg ggaaaatgaa ataaaaanng ttgatttgtt tttcttctcc 180
ctggaaatag gcagaagggg tgggggtgggt gagccttgga gggctcaggc ttcctttgca 240
ggaaaggcaa atgca 255

<210> 452
<211> 255
<212> DNA
<213> Ratte

<400> 452
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caaaggata ttggaatcgc tcatttgttt gtgaattttt ttattgaacc cacctactca 180
aagctagggc accccggacc tttggcccat ccacaccgtt ctccatctgg gggactaacc 240
ctgtttcaaa accag 255

<210> 453

<211> 255
<212> DNA
<213> Ratte

<400> 453
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gttcattgta ttatgggtaa aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaacg 120
ctgtaagcta cacaaaaaac attctgggtca gcctttttta agccaggcac aagaaattca 180
caccattaac aatgaacgct cagagggcct ttogaaaaat tcacacggca aacaacaagt 240
taaaaaatta tcccc 255

<210> 454
<211> 255
<212> DNA
<213> Ratte

<400> 454
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ggagagaaac ttgaagcaat ccactaaaaa tcagggacta gacaaggctg ccactctct 180
ccctacttat tcaatatagt tcttgaagtt gtagccagag caatcagaca acaaaaggag 240
gtcaagggga tacag 255

<210> 455
<211> 168
<212> DNA
<213> Ratte

<400> 455
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tttttttttt tttacacaag acagaacttt attaatggaa ggcttctctg tgaggagtgt 120
gtggggcccca gggcagggtg tgtagcacc atgatggggg atggcctg 168

<210> 456
<211> 255
<212> DNA
<213> Ratte

<400> 456
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tactttcaca ttaccaacat cagggaaatg aagagagggg gtgttttgct ttgggttatg 240
gtcacgaact aacta 255

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<211> 255
<212> DNA
<213> Ratte

<400> 457
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gagcacaac agctccaacc aaaacttccc ccagaaacgc aaagaaacac gatgagttat 120
ggcatgatgg agtttgccca tcagtagcaa atccttttaga agtttacctc attcccacac 180
caccagaaaa tatcaccttc gaagacctat ccttagatgt aatactactt ttaagagttt 240
tacatgccat cagtc 255

<210> 458
<211> 250
<212> DNA
<213> Ratte

<400> 458
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caaaaacaca acagttttct gggctctgtg tcagttacat tacattttta agcaacacgt 120
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<211> 255
<212> DNA
<213> Ratte

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<400> 459
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gactgaagga gaaacatttg agaaagaagc cttccagaag gcgaggtggg aggggtgtca 180
cgctggcccc tagataaaga tgattgagca acagggcttg agtagtagct aggtggaaaa 240
aagagaggac aaaag                                     255

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<210> 460
<211> 162
<212> DNA
<213> Ratte

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<400> 460
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aatttcattc tgagaaaaca gccacaacaa aagtaattta taccatataa aacaatgaca 120
ggtctacagg tgcagttact catgagttta cacatgcatt ca                                     162

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<210> 461
<211> 255
<212> DNA
<213> Ratte

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<400> 461
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ctccactcaa aagcactgtt gcagatanaa nangagacgg tagtactga ggcagaacta 120
taaaaaatgg tgtatgtttt cccctctttt taaaaaaaaa aaaaaaagaa taatctttgc 180
ctcgtttagat gacataggaa cactgtgggtg ttggtaggac ctgtattttt gttgtttatt 240
tataagaagg taatt                                     255

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<210> 462
<211> 255
<212> DNA
<213> Ratte

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<400> 462
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cacaatgaaa agctcactaa ctagattagg aacagatgat gctgggtgtga atagcttggt 120
gttttactct agagccctta aagaaaaatcc cggtttagtgt tttgtgttac cagccagagg 180
gtcaggggtt agtgaacatg tggtaaaatg aggacttatg caagggttaa tacgcatagc 240
attcttctac tttgt                                     255

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<210> 463
<211> 236
<212> DNA
<213> Ratte

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<400> 463
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ctgaagaaaa taattctcta ttatttttat taccacatgc ttctttctga ttctaaaata 180
tggaaaaataa aatatttaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcttg       236

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<210> 464

<211> 177
<212> DNA
<213> Ratte

<400> 464
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agcaaaagtg gggacataaa gaagatcatc atgggtcttg acaagatgaa gaaaacagcg 120
tgtgggttct gtttcgtgga atactattca agagcagatg cagagaacgc aatgcgg 177

<210> 465
<211> 255
<212> DNA
<213> Ratte

<400> 465
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ttgggatttg aaattctcga caccaccaga ggggaaaccc cagggcttgt gtttcctcgc 120
aattggctgt aactgcccc ttggccatgc taaggttctt taaaaacagg gtccattctgt 180
gttcattctt ctgccccaac cctactatga aacaagataa cccctctgtt ttctaaatgt 240
atcaagggat accac 255

<210> 466
<211> 255
<212> DNA
<213> Ratte

<400> 466
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tttttttttag tttattgtgt tccaagtgga tctctctcac acgtggtata ttagcaaaag 180
ttccattttc aatatctgtg attttgttgt ttccaagacc cagcctctgc agttccttgt 240
atcgttttaa atctt 255

<210> 467
<211> 250
<212> DNA
<213> Ratte

<400> 467
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tggatgaagt ccgaattggg cggattttcc tgtggctgca attagtagtc ctgtgagagg 180
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gcagaatcag 255

<210> 468
<211> 255
<212> DNA
<213> Ratte

<400> 468
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ttggtgcaca gattgagaag acaaccaatc gagaagcttg ccgggatctc agtgggagga 120
gattacgaga tgtcaatcat ganaaagcga tggccgagtg ggtaaaacag caagctgagc 180
gagaggctga aaaggagcaa aggcgccttg agagactgca gcgaaagctt gcagagcctg 240
cacactgctt tgcca 255

<210> 469
<211> 223
<212> DNA
<213> Ratte

<400> 469
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aacacttcac	tcattgtccag	agggttgcttg	anaagcccac	aggggctagg	gccgcagcca	180
ggcacagagc	ctgaggngct	tccttccaac	atcagcaagc	ggg		223

<210> 470
 <211> 255
 <212> DNA
 <213> Ratte

<400> 470						
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ttttctctaa	ctgccctgct	cattactggc	tgccctagca	cgaggctctgt	atcatgttgt	180
tctcacgtta	ccctgacagc	atacaggacg	gggagtaggg	cacattcaca	gtgttcacag	240
tcagcagaca	tggtg					255

<210> 471
 <211> 250
 <212> DNA
 <213> Ratte

<400> 471						
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ccccactcag	tgtcagcttt	gcttctgggt	gtgtggcact	gccagtgcctg	atgaacatta	180
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ttgagattga						250

<210> 472
 <211> 255
 <212> DNA
 <213> Ratte

<400> 472						
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ggatagggac	cacgtggcag	ccatctggat	tgtcaatagc	tggggataaa	aatcccaagg	180
aggacataag	cagaaaaagg	agcaataactt	cctgggttga	accaaactca	aaccagagat	240
cttaatgcac	cagac					255

<210> 473
 <211> 250
 <212> DNA
 <213> Ratte

<400> 473						
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aagtcaatgg	aattcaagcc	taattctgtc	tggcttttct	actggattgc	tcttctcat	180
tacatgaaac	tacaataaac	agtttatagt	tatactagcc	ttttataatg	aattcagagt	240
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<210> 474
 <211> 255
 <212> DNA
 <213> Ratte

<400> 474						
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cagaactact	aagtgtgccc	aaagggcaaa	aaactcaaga	gggagggcat	tctgagctgt	120
gtgagttttc	aaactcacia	gataaaacgc	aaactcccaa	gaagcatgtg	attcaaaaag	180
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<210> 475
<211> 255
<212> DNA
<213> Ratte

<400> 475
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atgttttgct gaatgtggac agtttataca cataacacat attctctctg aaatgactct 180
gtatataagg cagggtgtgg tgtgcatgcc tgtaattcca gcagttggga gatagaggtc 240
aggatcattc aaggc 255

<210> 476
<211> 255
<212> DNA
<213> Ratte

<400> 476
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gtcttttccaa agtct 255

<210> 477
<211> 255
<212> DNA
<213> Ratte

<400> 477
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cccgtttgag atgtgggatg aactgactta atctgatcta aatctgtata taatccacat 240
ttgtaatcaa ggatg 255

<210> 478
<211> 255
<212> DNA
<213> Ratte

<400> 478
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aaatagctaa tgaaaagccc tatctagatc cagattttat atgacatcaa attaggggaag 240
tggaggggaat tat 255

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tgtcatatct gaaccttct acaaaggaga gctccctaaa ttgaacttcc cgaaatctaa 180
ctttcctcaa tttccttctt aagacttaaa aacatcagta attgagggca tctcctgatt 240
aaaagtcccc tagaa 255

<210> 480
<211> 251
<212> DNA
<213> Ratte

<400> 480
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agagcacgtt gggccacctg tggcatcaag actgcaactt gacaatcacg gtttgctgat 180
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tgtttgtcag t 251

<210> 481
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<212> DNA
<213> Ratte

<400> 481
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gaaaagaatc aaggactgat atatatctct caggcacata agaaatgact tattaataaa 180
tgaaaaccag gtgcttgctc acagtctagc actgccagga gggatagcac acacctgtaa 240
ccctagctct gggga 255

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<212> DNA
<213> Ratte

<400> 482
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aacacccctc ccacttccct agtttttctt gtttttggtt gtcttaacaa aggggtgtaa 180
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gccaaaggtt ttctc 255

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<211> 255
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<400> 483
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atagcgactc agtatcatgg ccagccgcat taatgaagat ccagaaggaa gtcgaatcac 180
ttatgtgaaa ggagatcttt tcgcatgccc caaaacagac tccctagccc attgtatcag 240
tgaggattgt cgaat 255

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atgatgatga taattctctc tttccaacca aagagccagt gaaccccttt tttcctttcg 180
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atctaggttt gacat 255

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<212> DNA
<213> Ratte

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<211> 255
<212> DNA
<213> Ratte

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acatgaagct gcttcagttc tttcagaaca tcatttatac tgaaggattt gatggagcta 240
atccccagaa aaaac 255

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<400> 492
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gagtcccggc taagtgtctc ccgagctggg aaggagcttg ccactgaatc acagaagcct 240
ctttagtatt caggc 255

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<213> Ratte

<400> 493
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attcaggggc gacagacaga gctgtgacat gtccatgcc a ctctcccta gctactgagc 180
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aatactccgg ccagt 255

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<211> 255
<212> DNA
<213> Ratte

<400> 494
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ctttccgctt cattggctac accttgacct aacgttttta tgtnngttct tngccttact 180
ttagtgctt tttagggtt gctgaagatg gcggtatata ggctgaatta gcgagaaggg 240
gtaaggtaga acggg 255

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<212> DNA
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ttcttaagtg cttcaccaaa tttgttcatt gctttgtatg cctgggcaca ttctgtctgg 180
aaccacatac actgcattc attcagggtc tctaccgctg atgttctctc ccttgtaaac 240
ttggaacaca tttct 255

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<212> DNA
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 gaccatcact gccactgttc cctgtgaggg agcgcaagac tctgttttct tagggttgtt 240
 acttttagagg atgtg 255

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 gaccaatttt aagtttctta agttatttcc tttaaagtat atattaaact gaaacctaa 180
 tagactgcac tgactaacca gtcactctgg atggtgggtg aactgaagca tgcttttact 240
 tctaagactg tctaa 255

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 gttgccttca tcagagaaga ctccattaat tcagtgtccc aatggcgctc tagggaggca 180
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 tggagttctg cagcagaaaa gccgcattgt gtctttgaac ttgctggatt caaacactgc 180
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 gtaaatggg tttga 255

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 <211> 255
 <212> DNA
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<400> 501
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aagagctcca ggccctgctt ccttgatga aaggctcccc agtttaaaaa gagttctgag 180
 tgcacacagc taatgggatg ggtctgtag gcatttccat ctgatactgg atatggcttc 240
 attcttgtaa gagac 255

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 <212> DNA
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 aatcttcact aagcctgctg tggcctgagg gaagcacctc aaggaagagg catccactct 120
 gaagtttttag tgagtcaca tggggtttg 149

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 cgctgtggc taaagtgaac tgttgctgt taacagtttt atacagagac tgagccattt 240
 tggatgactc aaaat 255

<210> 504
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<400> 504
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 agcagtcact tgaaaaatgc cctgggctca ttccaggcca gacactatag gcttctttac 120
 aatctggagt tttctaaagc atgggcaaat ggggcttttg tcaaaacaac actcctttga 180
 aggaagtgc atcagacaag agctcactat ctggtgccag tctgcgggca ccatcccca 240
 acaagagtgc ttttg 255

<210> 505
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 <212> DNA
 <213> Ratte

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 aaggaacctg cggctccctc acagtgatgc aggaagcta aatgctgcac cctcctctca 180
 aatccatata acaagccaca gacctcagcc ctctctacag cccacacgg gtggtgtcag 240
 cagcaagctg 250

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 <212> DNA
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<400> 506
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 catagattgt gctgcttcca atcttgtcca ggaaacctag ggcactcata cgttagtgtg 180
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 caatggtggc tggga 255

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<212> DNA
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cattctagga tgtgtgtaac aaccccttat aggccttagg agccttttag gctataatag 180
ttttaaatat tcacaccctt gactagcagt gggttgtggg gtatttttgc tttcttttta 240
aggnnttttt agatt 255

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atggagtcgg tgaagggaag ccagatcaaa tgacacagtc caggggcaga gagcacaac 120
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cgtgaagcga tgcgg 255

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ttagaacatg 250

<210> 510
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gaggtgatca gcataagagg ccagatcccc tcgagtcac tcacacctagc ttcaccttat 240
tctttaaagg 250

<210> 511
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acgagacca atgtatgaca ggtgacttca gagcgacctt tcttgcttcg taactgcgaa 240
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<400> 512

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ataagcaagc taagtgaaca ccgggtccac tgaggaaggt cctttattcc caagcatgtc 240
cattgagcgt                                     250

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accccggttt tgtctacagt gactgcctgt gggccacgcc atctaaactg agaggggggaa 240
agattctatg ttcaa                                     255

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<213> Ratte

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ctagacaacc agtcaaaaaac agtaaaactta aaataaacat ataattttgtc attattttcta 240
cacagcattt aactg                                     255

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cagtgtctgcc tcaggattca gttagaggatg caccgaaggc ttctggagag cgtgtgggtga 180
accacactct tgtagactat agcgtctttc tcctgagcaa tactgcccgg gcgcccagat 240
cagcaccagc tccgt                                     255

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cacattagaa atacccaaat tatgcttctc tgaaattaaa aaaaaatgga tttaaagaact 240
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<211> 250
<212> DNA
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<210> 520
<211> 251
<212> DNA
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cctagattgg g 251

<210> 521
<211> 250
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<400> 521
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aacatggcgt tcagcatatg ctacaaaatg gcactgtgtc ctttgctaaa aggcttcaag 240
aataatacac 250

<210> 522
<211> 255
<212> DNA
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acagcgaggc ctggg 255

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<211> 251
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taaataatttt ttataaacagt attatacaaaa tttttacaaa atgggttcat ccgactagtt 180
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tatcattata 250

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<213> Ratte

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gctgaggagt gggtaagaga ggagacaagg cagagttctg tgacctcttt tacagagcat 180
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tgccgtgctg 250

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gtgaaagtgg ctctt 255

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aaggagggaa ggactaacag cacaccagct tggtaagatc ataaatatag aagcttaaat 240
tatcactggt gccag 255

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aaaagtgtcc acgcacaccc gttatgtgac aacctcctat aatctgcctt tagtcccaca 180
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atagttcaga tcgtatatct gtctttgttt gtttttcaaa atcattaaat ctaaatagct 180
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tggaatacct caaactgaga gaatgcagaa gagggctgaa cgtttcaatg tgcctgtaag 180
cttgagagat aagaaggctg ctccgggcagc gaggtttgga atttcttcag ttccaacaaa 240
aggtttatca tctga 255

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actggagctg gcaggccagc tcttgtctct tctttttgaa gatttggtta aaaagttaa 180
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acatctaaaa aaata 255

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<211> 250
<212> DNA
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<400> 534
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gaagtaaagt ggaactgcct gaatgttctt tcataaacct aggaaataaa gccaggctca 180
tcagttagaa cttggagaat ttacccacac aacctgagct gttaagaaaa cattggactt 240
tcatttcagt cgcac 255

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gacaattcag taagatcacc aagaaaatca cctcgtttaa tggcacaaga acaagtaaga 180
agtttgcgac aaagcactat tgccaagcgt tcaaatgcag cacctctaag cacaaaaaag 240
ccatctggga agact 255

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gcaagaacca aatgcactgt gatgtggcac caactaatta gcaagcatga ctttttcacc 180
tgagagtga aaaaggaaac tctaccatgg cttgaagtta aagagcagaa ctcttgacta 240
ccattctgat caaga 255

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tgggocctgtg ggctcttctg agatggtttc atgtcagctc ctaagcgctc attctacaca 180
gtaagctaata gctggagcgc aactcccaag atagagcagc ctgtctcata aataatgaag 240
tctttttctc agga 255

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tccgagatca tcagctgccg ttcaagcatt taattggcca agttatgggt gacaaaaacc 180
caggaatcac ctcagcagta aataaaaacca gcaacattga caatacttat cgaaatttcc 240
aaatggaagt gctgt 255

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<211> 250
<212> DNA
<213> Ratte

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acagagaaca ccggtgagtc atagagtcag gggaaggta ctgggagcac ttggctgtgc 180
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aagttgagag 250

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<211> 238
<212> DNA
<213> Ratte

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 cttcagatga gctgctccgg tggatccgcc catcactctt catactgtgg aaagtcttct 180
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 ggggttgga gtgttgcaaa ggagactgta ggactaagta tattcttgta ataaaaccag 180
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 tctttggcat ccaaa 255

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 tgctttccca actggaaaag gtgttctacc accttcggc gggccggaag gagatcgcg 180
 aagcggaagt gcggatgata gactttgctc acgtgttccc tagcaacaca gtagatgagg 240
 ggtatgttta cggtc 255

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 <211> 149
 <212> DNA
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<400> 549
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 cctgtcctgg aactcgctct atagatcagg ctgggtttcaa actaagagag atctgcctcc 120
 caaatgctgg ggttaaagga gtgtgctag 149

<210> 550
<211> 255
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agatgctgat ccgagtgaac atggaggacc tgcgagagca gacgcacact cgccactacg 120
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agcccttcag tctccaggag acatatgaag caaagaggaa tgagtctctg ggagagctgc 240
agaagaagga ggagg 255

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atgcttttaa ggcaa 255

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aagtgcgaag agtcc 255

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gaacacggag 250

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<212> DNA
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tcggccaatg agggga 255

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aagtgtctga cttgg 255

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tatttctatt tgcaggtgtg tgagctgagt ctccctgctg gtggactttg taactgactt 240
gggaagtat gaagg 255

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<211> 255
<212> DNA
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gactccgagt tctggccatg gaaacaacat ggccgggtgc tctctgtttg gcttctggac 240
tgcaataagc cagtg 255

<210> 559
<211> 255
<212> DNA
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tgagtgattt ctct 255

<210> 560
<211> 251
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<400> 560
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ccacttgagc agattgaggt ttatgcacga gaattctctg aagtcctatg tgattcagaa 240
tgctctgttg c 251

<210> 561
<211> 255
<212> DNA
<213> Ratte

<400> 561
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ttgacgaata attgt 255

<210> 562
<211> 255
<212> DNA
<213> Ratte

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tcaatgacac agatg 255

<210> 563
<211> 251
<212> DNA
<213> Ratte

<400> 563
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aggagcagat tccac 255

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tacttaatct ttag 255

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tccctgtgtc ccttc 255

<210> 567
<211> 251
<212> DNA
<213> Ratte

<400> 567
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tgagaatgac c 251

<210> 568
<211> 255
<212> DNA
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gagtgaatga aatgg 255

<210> 569
<211> 255
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<400> 569
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ccgggcaggc accct 255

<210> 570
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ctgggtgctc agacm 255

<210> 571
<211> 255
<212> DNA
<213> Ratte

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<210> 572
 <211> 254
 <212> DNA
 <213> Ratte

<400> 572
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 gacctaacag gaacaanaaa aaahhgtgtt attnnnggcc cnnnnnnnrcn cttgagtttc 180
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 acgatgaaga tggg 254

<210> 573
 <211> 241
 <212> DNA
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<400> 573
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<400> 574
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 agctggaaac caacatttcc taaagactaa aatttggtttc aaataaataa atgagcaaag 180
 tcaggtaata accttttcaa aggtggagtt tggtagtctt gagtgatact acctattcct 240
 gagtctctctg gatac 255

<210> 575
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 <213> Ratte

<400> 575
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 ggggtcatgt atatgcagaa agccttccca tcatttgtca ttgtgacctg tggcaagcca 180
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 tagtctaaaa tctaa 255

<210> 576
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 <212> DNA
 <213> Ratte

<400> 576
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 ggaacaaaaat actcacagga ggaaaaatgg agataatgtg tgaaacagag actgaaggaa 180

aggccatcca gagattgccca cacatgggga tacatcccaa atgtagtcac ctaacccagt 240
cactattggg gaggc 255

<210> 577
<211> 255
<212> DNA
<213> Ratte

<400> 577
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attagcaaag atttatgaaa cacattccaa atcaaatgtt gctatggaaa caacagactt 120
aagtagagaa gcacaaagtc ctgaagcacc cgcaattatt ttaatcagga aaaatgatat 180
atttatatat gcatatgcat atatataatt tgagaagaaa taaaggcaaa attctaactt 240
taatcagagt ttgta 255

<210> 578
<211> 255
<212> DNA
<213> Ratte

<400> 578
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ctggagagtt cctcaagatg gagactttga ttttttaaaa aatctaagtt tagaagaact 180
acagatgcgg ctaaaagcac tggaccccat gatggaacga gaaatagaag aactgcatca 240
aagatacagt gcgaa 255

<210> 579
<211> 255
<212> DNA
<213> Ratte

<400> 579
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cccaggcatc agtgaacatc agcaaaaaaa aaagtatatc ttgtgaagct tactttctca 120
gatattgttt taaaactatg ccattataaa atagttatca tctagggttg agtaggtagc 180
atttatgcag aaaggctaca gtcccaaagc agctaccata aatatttttg aagctattcc 240
ttttcacctt aagat 255

<210> 580
<211> 255
<212> DNA
<213> Ratte

<400> 580
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cttggcaccc agggaaatagg atgggtttct caattagaaa agacatatat atccacacac 120
ccatatatat aacttttttg tttttaacat ttaaataata aaatactact ctgctttgag 180
ttataaatgg aggaccaaga aacttttttc ttcctttaca gtaggggccat ttgtcagggtg 240
aactgtgttt catga 255

<210> 581
<211> 255
<212> DNA
<213> Ratte

<400> 581
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aagttcttct gtattgcata gtagttcaga ttctctgtgg aaaccataag gctattttgt 120
ctactttgca tgaatacttc agacttgatc ttcagagcca agcagtaact aaaatgtgga 180
ccttgctttt cagagataag agttcttaat tatatgcctt taagtgtttc cttctagggt 240
tcccaccaag tgttt 255

<210> 582
<211> 255
<212> DNA
<213> Ratte

<400> 582
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cttactagtt ctagccttca aaggaggtag accttgggtt tcctcctata aatttctggt 120
ggtggtgata actcataaat gtatgtttgt atgggtattta tcaactaaat agcagtagaa 180
atagagatcc aattccttta gtacctgccc gggcgggccc tcgaaagccg aattccagca 240
cactggcggc cgtaa 255

<210> 583
<211> 255
<212> DNA
<213> Ratte

<400> 583
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atatctgcag aattcggctt agcgtggtcg cgcccgaggt actaatcagc cttgaacatg 120
gtttacagct ttctccttcc gagcagttct ttccagagaa gaaatcagtt ttgatctttt 180
atagtcggtg cttgttgaaa acaagctttt tctttccccc aatgatgaag cttcattttt 240
gaagtgttga agctg 255

<210> 584
<211> 255
<212> DNA
<213> Ratte

<400> 584
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cctctagat gcatgctcga gcggcccgca gtgtgatgga tatctgcaga attcggctta 120
gcgtggtcgc ggccgaggtc caagcttttt tttttttttt tttttttttt ttttttagga 180
tcacagatac nctgtttatt caaataaagc aagggaaca aagggcgnc tttctaaact 240
ctntntattt aacag 255

<210> 585
<211> 255
<212> DNA
<213> Ratte

<400> 585
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ctctngangc angcttgagc ggccgcccag gtgatggata tctgcagaat tcggctttcg 120
agcgcccgcc cgggcaggtc ctaaattggt agttcttgaa gtctaactct gtgctaacag 180
atcttcattt taaatagaat acggttttaa tttttgataa gctgctgaat tttaaagaga 240
gttttttggg gccac 255

<210> 586
<211> 255
<212> DNA
<213> Ratte

<400> 586
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tcagtcattc tcaagttcta gccatgggac caacgttagt gttctgtgtc acgtagccac 120
aggtcacggt ggcttaggaa aatactggca ttctggtttc tgtgaaataa 180
gccttacctt gtgcattcaa gcaaaagggg aaaacaggca aaagaaaaaa gggggatggg 240
gagaaagcac tgtcg 255

<210> 587
<211> 255
<212> DNA
<213> Ratte

<400> 587
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ccntnctccc ncnctnccncc nnattcnttc gaatccactt ttgantaccc gtngaattgg 120
gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg atatctgcag aattcggctt 180
agngtggtcg cggccgaggt actgtaatgn tgncaataat ggnggaatat atatagtttg 240
acagaatcat attaa 255

<210> 588
<211> 255
<212> DNA
<213> Ratte

<400> 588
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ntcactatan ggcgaattgg gccctctaga tgcattgctcg agcgcccgcc agtgtgatgg 120
atntctgcag aattcggctt tngagccggc gccngggcag gtgcttcaga antcaccagg 180
acttcacttt taggaaaaac cttgtggcag ccaaggaccg gcacacacag atccaggagg 240
aactgcagac aaatg 255

<210> 589
<211> 255
<212> DNA
<213> Ratte

<400> 589
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agcngnccgc gtgtgatgga tatctgcaga attcggcttt cgagccggcc ccnnggcagg 120
tgcttcagaa ctcaccagga cttcactttt aggaaaaacc ttgtggcagc caaggaccgg 180
cacacacaga tccaggagga actgcagaca aatggagata caaacagtcc cagggacagc 240
aacagtcacc ccac 255

<210> 590
<211> 255
<212> DNA
<213> Ratte

<400> 590
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gtcttagacc ccagatactt tgtcactcat attacaaagt tgacataatt ggctaaaatc 180
agtctgaaga tttttattca ctgagaacta tggttattaa aaccaagctg ttgacgaaaa 240
tataagttaa aaata 255

<210> 591
<211> 255
<212> DNA
<213> Ratte

<400> 591
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tccgatttgc tcgtccatgc acacagatgg aagcagccgc cattggaggg gaggaatgtg 120
tccttggtct gaccgacagg tgtcgctttt tcatcaacga cactgagggt gcatcaaata 180
tcacgtcatt tgcagtgtgt gatgactttc tactggtgac aaccattcc cacacctgcc 240
agtgtttctc tctaa 255

<210> 592
<211> 255
<212> DNA
<213> Ratte

<400> 592
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cctctagatg catgctcgag cggcccgccag tgtgatggat atctgcagaa ttcggcttag 120
cgtggctcgc gccgaggtac agcccatcta gccctcagnt gccagaggga cctctcctac 180

aaccttataa tgtaagtatg ccttgccctc cgcaccccc accttagtga aaactattgc 240
cttacaccta gtcac 255

<210> 593
<211> 255
<212> DNA
<213> Ratte

<400> 593
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aacctcaccg atgaacacgg caccattaag cccctttctg taatggattt caatcacatt 120
tactgctgag attactcagg caggtgagct gatgctggac acgaaccctt cagtaaaagt 180
cagtttttagg caacccttta gttttccttt agacaggtat ccacagtcca taaggacttt 240
ttttcttatc tattt 255

<210> 594
<211> 251
<212> DNA
<213> Ratte

<400> 594
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gcctcatgac acagacgggt gtaaaaatct gaagtgtatt ttatcagcta cctggatgtc 120
agtgcacaca gacgtgcact cttctcatga ctgcaacagt gatcgggaag aggaaaacc 180
tcaactctgc ctttggctct gtgaactaat ttcagttcag attctaagct gtgtcactc 240
ccattttgaa a 251

<210> 595
<211> 255
<212> DNA
<213> Ratte

<400> 595
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cagctctaag tcccttggct tcacagtctt acggccggca tgagcagcaa atacctocag 120
atcattgcaa aggcgttgga aatactcgtc taggcacttc tctaccatct caagagccac 180
tttctccacg ggcattcttag tatggaaact gaagagcttc acatagtggc tcagtccggc 240
cttgtagggg tcttg 255

<210> 596
<211> 255
<212> DNA
<213> Ratte

<400> 596
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agaggctttc caagttaatt ctgaacatgg ctaaaggaag agaggccaac attttctaaa 120
ttgcacaaa tggcctgaaa gtgtaaaaaa cactagattt ttctttaaaa gctaatttgg 180
gggtggtaga gtttaaggaa atgtctatat gtattttact caagcaataa aattagaata 240
aggatacagt tttgc 255

<210> 597
<211> 255
<212> DNA
<213> Ratte

<400> 597
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aacataaaat aaggaggaaa aatgaactta tgagaacaca attgaagaaa agggaaagaa 120
aggtttaagt tcagttgcat ctagattcga ggaaacatga ataaaatttg attagattcc 180
gtaattacat gggatattat tttgaacgca catgttaatg tatgcctgct tactgattga 240
gcatttatga gccga 255

<210> 598

<211> 255
<212> DNA
<213> Ratte

<400> 598
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gtgcaggact tgtctgcagc agagaaactc actccaagag caagaagcca aagaaaggaa 120
aacgaaagat gatgaagggg caaccctctg taagaggcgg cgagtgcagc gtgatgagga 180
gcacactgta gacagctgca ttggagacat aaagacagat gccagggacg tcctgacccc 240
cactagcacc tcaga 255

<210> 599
<211> 255
<212> DNA
<213> Ratte

<400> 599
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gccctggagc tcaagcagtg acgaagagga gagctagtga gccggggggc aaggcgccag 120
atgctgaccc aggactcccc gaaagccctt ggtctctgtt ctgaggactt cttgcagtgt 180
gatcatccgg tttatattatg tgcaatttcc ttttccctct ttctgcccc ccccaacctt 240
tgaggcatct gctcc 255

<210> 600
<211> 251
<212> DNA
<213> Ratte

<400> 600
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ttattttattg ctaacagaaa tggctacctt tgtaaataga cctcattgag ccaatcactg 120
aactctttgt aagcacattt cccccaaagt ccagtgttta gacgacagtg gcaataatgt 180
attcattcta gtagtcagtg gtaaccaggc agcttgtata ggacattgat atttaccctg 240
gttgctgtga a 251

<210> 601
<211> 255
<212> DNA
<213> Ratte

<400> 601
accacagaag aggagattca agaaatctgc atagagacac ttagacttta taccaggaaa 60
aagcctaact atgaattgct ggaaaaggaa gtgaaaaaaa gaaaagtagc cttacaggag 120
gccaaagttaa aggcaaaggg attgaatctt gatggaactc cagccctttc cactttaggt 180
ggttttttctc cagcctccaa accatcatca ccaagagaag taaaagctga agagaaatca 240
ccagttttcca ttaat 255

<210> 602
<211> 147
<212> DNA
<213> Ratte

<400> 602
acacacaaat actcttcttg ttctgataaa ccctggatgc ttgcagtga cttttctagt 60
gtattttctca tttctogttc gctctgcttt aacttaacta tggcttcttc atgttgtacc 120
tgcccgggcg gccgctcgag ccctata 147

<210> 603
<211> 255
<212> DNA
<213> Ratte

<400> 603

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acaaagaact cagtgtcttc cggagcaaga cacaatggtt gccacgggga gaggccaggg 60
cagccaagtc accctcctc agaggggaca ggctccacca tcaggttcat cagtttttga 120
aaataaaaaa aggaccagaa acagtgtctg tttggttgct ggtgctcccc ccaccccaca 180
gcaatgctga agtctgtcca tccagttcca agcaaatata gagcaattcc aaccaacacc 240
catctttgaa aaagg                                     255

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<210> 604
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 604
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catttatatta aaaagctatt gcaactgtctt ggtgaacagt gtgtggggct tcaataaaaa 120
agggctctgt gcgtgtctac atggttccac ctcttacttt ccaactgttt aaaaaaaaca 180
aaaaagtcgc atatcccaag gcaacaaacc ccacagaatt cccgaaccaa tgggcgttgc 240
aaaaggaagt ggagc                                     255

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<210> 605
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 605
atattgtggc acatgacaga acagaacgaa ataactaaac tgttatgaca ttaacggtta 60
ccatgcattt agagtttccac atgtaactac aaacttattt aaatttcaca aagtttgcta 120
aacatgccga ccatctatgt gtgcactgac aagcttatgt taaaaacttt taagaatact 180
ctccccctta gatttttttca aagcttttgc tttgattaca aaatttcaaa ggcattaagc 240
aattaagaga atata                                     255

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<210> 606
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 606
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tcccagataa caatgccttg tttgtgagct cgcgaccacc ctctgggggtg ccatccagta 120
taagatagag agctggggcc cctccccacc cgtgtcatgg cacatgtcag agggagagag 180
gctttttttac ttctaacaca tctgactgct gctggcagac tctagatttg ccatgcaggg 240
gtttcaaata atttg                                     255

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<210> 607
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 607
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tacaggtttc caaatttgga aggacaattc atttgggtat tcaaccttgc taggccccag 120
caggagatag gctaatatct aattagctta ttagccatgc catagtcccc tgactggaaa 180
tggctacctt gcccatgcta aggtagatat gccaaagagc tgcccggctc tgccctgcca 240
ccacagagac gctat                                     255

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<210> 608
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 608
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gagcgcttga aagatttgga agacagcaca ctacgaaaca tcagaacagt gagcaggcaa 120
gaagaggagg atcttctgcg agtagaggcg cagcttagct cggatacaaa agcagttgag 180
aagctagaag aagagcagcg cagctccta gccagagatg aagatttgac cgataagctt 240

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tccagctacg agccc

255

<210> 609
<211> 255
<212> DNA
<213> Ratte

<400> 609
aaagaatcat ttaatgtggg ggcagaactg gcacagacag aataaataat agtgcttttg 60
ggagagtagt gatgaactgg gtaggcaaga aagagcctca gtgtggacgt gatcacacag 120
ataacatgga gatgtgcaaa gttgcgaggt ccatgacaga aatggcccaa cccaccaga 180
tagcttctct atttggttgt caactacagg gaacagacta ggcccggtga gcacaggggt 240
gggagactgg agaaa 255

<210> 610
<211> 200
<212> DNA
<213> Ratte

<400> 610
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gccatttctg ccaccattca caagcttaat atgttgcttt attttttttc ttgagtcctt 120
gataaaataa aataattatt aaaccataaa ataacctttt ccacttctaa tcttctgaaa 180
gcaacaggca ctttgatgtg 200

<210> 611
<211> 251
<212> DNA
<213> Ratte

<400> 611
acatgaaata atactgtgct tccattggat tttcttttcc agtggtgggaa ttgtgaggag 60
tgctgtggat ttgctctctt catagcagtg ttctgtatgg aagtttaacc tctacaaatt 120
tgctgttgac gtatgtgtat tgaaaattgg cctccttaag tgggcctcct attagtcaag 180
attagctggc ttgattgtgt aatctgcaac aaaaaggaca atgtttcctt agtctctgat 240
ggtaggcaga g 251

<210> 612
<211> 255
<212> DNA
<213> Ratte

<400> 612
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tctacaaagg atacttaaca ctgaaaagct catactgaca aacattttaa ttgacagact 120
caagttgata ggcacataat acaaaatttg taaaacgtgt ctcagagggt aacactgaag 180
cacatctgtt ttcaagactc cataaaaaat ccagacttca cttgccaaaa agtccaatca 240
attttgtctt agcat 255

<210> 613
<211> 255
<212> DNA
<213> Ratte

<400> 613
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agataacctt gattatcacc cagatggcat ttagaaccac tatggaaaaca cccctgggtg 120
ggctcttgag ggtgcctcca gaagaggttt aacagagaag agggaaggcc caccctagac 180
accagtagca ccattccacg gactgggggt ataggctgaa tataaaggta aaagcaacgg 240
agcaccgcga ctcac 255

<210> 614
<211> 255
<212> DNA

<213> Ratte

<400> 614

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cctttgttga gatagtcatt ttaacatttta gaattcaaca atattaataa atataatttc 120
gtagcatgct ttcaaaaaaa tgaccatttta ctaaggataa aaagattaaa aaggggtgcc 180
tgcagagatg gttcaatggg taagtgggtcc tgagttcaat tcccagcaac tacatgggtg 240
ctcacaatca tctaa 255
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<210> 615

<211> 255

<212> DNA

<213> Ratte

<400> 615

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ccatgaaata tcaactggctt taataatttta ctacaactgt tcttttttatt cacactgata 120
ggacgtgctt ccacctgtcg catggaatat gaatatatac aacaaagtgt ggcttatata 180
aaaaaaaaag aaacctccat atgggacaacg gggggggccaa accaatgaca catgcagttt 240
gctaattaca accac 255
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<210> 616

<211> 251

<212> DNA

<213> Ratte

<400> 616

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acacacagta gccactccct accacctctt tcttgaaaag tgaaatcttt taagcagggg 60
agctcagcat cagtttactg cagctgtgat ttacaataa cctttctata ttgagcctat 120
ggggtatgaa gatatgcaaa atcctgttcg tttagagcca ataaaagtgt aactgatggt 180
caatactggt ttagaaattt taggtcttct aaaccatagc tttttcaggt ctgaaatcat 240
tttattgcc a 251
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<210> 617

<211> 255

<212> DNA

<213> Ratte

<400> 617

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tgagatatat gataaatttta gaaatgattc attcatggaa aaatgtagag ttacctgtat 120
agggtgcctat ctaggcctta gagagagatg agtagacaga gaagttcagg ctgagattgg 180
gcagaggaag cataggcagc agaaaaatgct aagtagttta gatattaagt taatagatcc 240
tgatatagn gctcc 255
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<210> 618

<211> 255

<212> DNA

<213> Ratte

<400> 618

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aataaccagg tttaacattaa cagtcacttg atgagctttt ttgtttgttt gtttctttat 120
tctcagctaa ctcaatacac agttttcttc acggttcaaa ccaaacagct tttccatatt 180
tgagctgcct cacagctagc acaggtcaca aggagactca ctggctgtcc atagccacca 240
gacacagaac tgaac 255
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<210> 619

<211> 100

<212> DNA

<213> Ratte

<400> 619

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acccccaaat acaagcaaac cacaatggat gctgtaaaaat ccatttctgg ggcaaaaagt 60
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ttttttgttt gtttctgttt tttggtgttt tttttttttt

100

<210> 620
<211> 255
<212> DNA
<213> Ratte

<400> 620
acaatgaaga cttaaaaacgt caatataaaa tgtaaattaa ttcattaaga aactgaaatt 60
tatggactct gcacaggtga acaggtagct gttttaaatg tctttctttt ctatagtaaa 120
tatatatattc atttaaatgga atcacaggaa aatacaacta tagttttcaa ggcgagtcgt 180
taaactaaca cattatatat gaaaaaacact ttaccttttt ccactccaa gagtgaagctt 240
taaggggctc aagag 255

<210> 621
<211> 112
<212> DNA
<213> Ratte

<400> 621
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gtaataacct aggacgtcac agtaatggga ctttcagaat taaactgctc ag 112

<210> 622
<211> 253
<212> DNA
<213> Ratte

<400> 622
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tgatgcagac aaaaacttta aaaaaaaagc tactctyyct tcagaaataa tagaagtata 180
taaataaawa maggctgttg arctgagctt cctgctgtgt gactttrtaa ctramttggg 240
aagtaatgaa gga 253

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<211> 255
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<213> Ratte

<400> 623
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aaccatcttt atgaagaaga aatttaaatg ctggattnnw aaatttaaaa gacctggcct 180
tatgggtggg tgtttatcgg taatttaaaa ccaggcgaag ttggtagtag gcaaattttt 240
aaaaagtgat agagt 255

<210> 624
<211> 255
<212> DNA
<213> Ratte

<400> 624
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agaggtggac actgttgcaa gakgggcac agtgcagycg tgtccatcca tcaactgtctg 180
cagcattcac attgacacca aagtccagca gaaacttcac gatatggtgg tggccagcac 240
agacagcatt gtgta 255

<210> 625
<211> 255
<212> DNA
<213> Ratte

<400> 625
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 aatatctcac tgcataagga ctgctagact gaacaatatc tyactgcata aggaccgcca 180
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 gactgctaga ctgaa 255

<210> 626
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<400> 626
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 cagatgatat ggaagtccctc tggagactga agccacttgt cttagtctct tgagcaaatg 180
 aacagacact gctatcattt gacaaggaaat tcagactcag aacagagaca acaaagtatt 240
 ttwdwadata attat 255

<210> 627
 <211> 255
 <212> DNA
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<400> 627
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 cactgccagg tgtttctctg amtctccct cgatgtgggt cccwhnwggc agctgctgtg 180
 tttggtaaga ctgggttccca caggatggta aatatactag tttatctgat gatgctaaca 240
 tgctgactca ggggc 255

<210> 628
 <211> 255
 <212> DNA
 <213> Ratte

<400> 628
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 tatggtggga aacactaagg aacattggga tcctatgddc tgttgggtgc aatgatgctg 180
 gcttctggac agtccctctga tgtgggagat tgtgggttag catccaaagc atcactccag 240
 tcagccacag tgact 255

<210> 629
 <211> 215
 <212> DNA
 <213> Ratte

<400> 629
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 gtgagacata cctagcttca ggattatttc ttatgcthht tcttattttg gttacacata 180
 atctgctcag attctacagt aatgcttcta gatgt 215

<210> 630
 <211> 255
 <212> DNA
 <213> Ratte

<400> 630
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 agaaaaaaaag gktataatgc cmaaaamaaa aaaataaaac ccaaaacmga traaaaaaga 180
 ggggagggggg aaaaacmacc caccgacmac cagggcgggc gctggggcag ggggatttgg 240

attmagggaa acmgg

255

<210> 631
<211> 255
<212> DNA
<213> Ratte

<400> 631
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agarattaga aaaatatgag cttagagtta gagacgagaa tctgtgggtt aaagcatgga 180
tgcattgrrga gccttccatc cagaggctcc cacagttctg cctttcatgc agctaactta 240
agrggrtrtt tsrgc 255

<210> 632
<211> 254
<212> DNA
<213> Ratte

<400> 632
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aatcttgtta gaacactgag agaaaaaggc aggggtatgta gaatatggat aaattccctt 120
ataaaaacttt ctttacacaa ctttagcaga ttaayygtaa ahttgtatggg aataargttc 180
acacattttc ttgttttagta aggggtatcca tgggggtaac tttmattttg acgggagcac 240
ctggttwgy atcc 254

<210> 633
<211> 255
<212> DNA
<213> Ratte

<400> 633
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gttccctccg ctccctctcc agctctatca tctcctcaga gggcctcact ttccggatgc 180
agaactgntc cttctcgtgc tgcacctcct caaagagctt ggagggttct ttgectentg 240
gaaggcacgc agctn 255

<210> 634
<211> 255
<212> DNA
<213> Ratte

<400> 634
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ccgcttanac gcctttcacc ttgggcaagn agaccaagga aggacacagc nacnactaca 180
tntccaaacc tacctaccat cnggaaaccc agtgccctgaa tgatgaagggt gacnggcaat 240
ggcnnaatna ctcac 255

<210> 635
<211> 255
<212> DNA
<213> Ratte

<400> 635
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gagcccttgg tggctgcctt atgcctgctg gagggcatgc tggtagccat gtccacaggg 180
gtctcacttt ctatcttcag gcctccgcgg ggctcttcag cagctgactt ctacgttttt 240
ttgggttggg ttttg 255

<210> 636
<211> 255

<212> DNA
<213> Ratte

<400> 636
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tgggcatgta agaccttaag ggggtgggtgtg tgccawgmmt gcccattgtt ctaggcagtt 180
ttagcttggtg tcttcacata gatgagagcc tactgtctgt cagtgaaaar agtgggtgctc 240
cagggatatg gtgct 255

<210> 637
<211> 255
<212> DNA
<213> Ratte

<400> 637
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tcacgagaaa gagctgccac gagcaaagac ctgcttgagg ataggactgt ggtggcttcc 120
aaccaaaatc gtagatgant ccacctgntc cctncacatc tgtggaaaga gtctaagcgt 180
gacacccaag aacaccttac tggcttgccc tctgggnatag acacagactt gggcaaagca 240
acccttgctg gacat 255

<210> 638
<211> 255
<212> DNA
<213> Ratte

<400> 638
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gtggacactc ggggggtgggg ggcttgacana gaacacaggt atttccagat agtgtcagct 180
tatttgaaaa ttaattttct ttgttaaaaa taactatatt aacccttgag tggcttcttt 240
ttaaaccaaa aaact 255

<210> 639
<211> 219
<212> DNA
<213> Ratte

<400> 639
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tattttctca acggnntctg cagtgacctt agngaagaac ccacagcagc tggggccccag 120
ggncacaagg gatgctgcgc tggacatcaa aaggngacag actgaaatga gcaggactga 180
gctgctgggt tggncntnnc acaccagcgg ncttnacct 219

<210> 640
<211> 255
<212> DNA
<213> Ratte

<400> 640
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agtccctgac gttgggtgga gccaggttct cagtccatc totacacaag aagagcatca 120
tctccttctc atcctcatca agagactcct ncacctggng aatgacctca gcanacacag 180
tgctcagggc catgttcaga accgcagaag ncaggctctg ggccannctc catccgttca 240
ncagggtctc gggaa 255

<210> 641
<211> 255
<212> DNA
<213> Ratte

<400> 641

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ctgttcgttc	cctccaccga	ccctttgatg	accgagaggc	acaagaactt	ggtagccccg	120
aggatcgact	gcaggacagc	agtgacctg	atacttgcag	tgaggaggaa	gtcagtagcc	180
ggctgtcccc	accccacagt	ccacgagact	tcacccgaat	gcaggacatt	cccgaagaga	240
cagaaagccg	agatg					255

<210> 642
 <211> 255
 <212> DNA
 <213> Ratte

<400> 642						
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cgagagcaaa	aaactggggt	aaagaacttc	aaaggcaagc	aagtcctaata	attgtgatag	120
ctttgtcagg	aaacaaggct	gacttagcaa	ataaaagagc	tgttgacttc	caggaagcac	180
agtcctatgc	agatgacaac	agcttattat	ttatggagac	atcagctaag	acatcaatga	240
atgtaaata	aatat					255

<210> 643
 <211> 255
 <212> DNA
 <213> Ratte

<400> 643						
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aaaagtccga	gggtattgggt	aatcagaagc	agttcaagaa	ctttcagatt	gaggtgcaga	120
agggccgcta	cagcctgcat	ggctctgttg	accactttcc	cagcctgaga	gacctcatga	180
accacctcaa	gaagcagatc	ctgcgcacgg	acaatataag	ctttgtgctg	aaacgctgct	240
gtcagcctaa	gcctc					255

<210> 644
 <211> 58
 <212> DNA
 <213> Ratte

<400> 644						
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<210> 645
 <211> 255
 <212> DNA
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<400> 645						
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tgctcttgca	agacatttgt	cctgagaaaag	ttcaagacac	actgccatag	tagggagaaa	120
gatcacaggg	aaaatggaga	tgggatttag	gttttgaagg	actgtagcaa	aatgtcaagg	180
tcctcagaga	aagggagttt	gttttghtaag	ttaattaaaa	gttgctgtgt	ctgtaattgc	240
agaagttgta	cctgc					255

<210> 646
 <211> 255
 <212> DNA
 <213> Ratte

<400> 646						
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gctcaatgag	ctggktgagt	atggntcgac	tagccgtggk	gctaattgtt	gaatcagcgt	120
attctgatat	tgtaaaaaatg	atcagtgcta	acatcttccg	gacacttctt	ccaagtgata	180
accagactt	tgacccggaa	gaggatgagc	ccacacttga	ggcctcttgg	ctcacatata	240
gctggtgtat	gaatt					255

<210> 647
 <211> 137

<212> DNA
<213> Ratte

<400> 647
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atthttggaac agccaaagna ttatccccag acagcaaaca agctagagcc aattcatttg 120
taggaacagc gcagtat 137

<210> 648
<211> 255
<212> DNA
<213> Ratte

<400> 648
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cttgtccagg ccattctccc tcgggggaatg tgctgggctt cctcgagggg aagatggatc 120
ctcattggac acatcaacta ccaagttgtc atcactcttc tcaccatcac tgtcatagcg 180
agctgcaatt tccttctctt ctgttttctg cttcttgctc tctgaggaat agtctgtaga 240
gttctgtgtt ttctc 255

<210> 649
<211> 255
<212> DNA
<213> Ratte

<400> 649
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tgcagtaact cttgctgttc tatttaacaa tgccttggtg ctttgtatgc attaacgttt 120
gggtgtaaaag attgtgtgtc catccaacag ggagccacag tatttaaatt gaccaacctg 180
atgttacaac tttgaggtgg ccaaattgtaa actaaaagcc ttaattaaag tgggtgcaatt 240
ttgtataact taagc 255

<210> 650
<211> 255
<212> DNA
<213> Ratte

<400> 650
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ccagggccgg agtcaacgat aaatagaagg cacagtgttg cttggttttg tcatcagatt 120
tggggtttgt tttctcgtgg gaattttttg tccttttttc ttttttcttt ttttttcttt 180
ttttttttta caaatacaaa taaaacatga aaaactctac ctcaaaaaaa tctaacagtt 240
caacaaaagt cttta 255

<210> 651
<211> 255
<212> DNA
<213> Ratte

<400> 651
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accaggtgag tgggtggtaga gggacaagg aaacagaagg caggcctgtc ttgactctgc 120
gcatctgtct tctcatcctc acccagctgc gttactatga ccaccgagt gacacagaat 180
gcaaggggtgt cattgacctg gcagaggtgg aagctgtggc acctggcaca cccaccatag 240
gtgcccctaa gactg 255

<210> 652
<211> 255
<212> DNA
<213> Ratte

<400> 652
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ccagccaagg gttgccttaa attgtgccag ggggtgttat accgagtga caggcctgga 120

<213> Ratte

<400> 658

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tactccgagt ctgggttttca cctwtccctag cacaccagag ccttgttcct cagcccatcg 120
aaagagtagc agcagcagtg gtgacccctc ctccgacccc ctagggttctc ccacactcct 180
ggctttgtga ggcacccagc cacaccctt gcaggtgcta cccgttgcta tctcctttcc 240
ctgttcaccc agcag 255
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<210> 659

<211> 255

<212> DNA

<213> Ratte

<400> 659

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tcttgctctg ccttaactac tggaagctgg agaccctgc tcaattccgg cagcgatccc 120
gggtcgagga tgttgctacc tataaggtca attataccag atggctctgt tactgccacg 180
tgcttcagag ctgcgacagc ctcccccgat atgagaccac ccattgtgtt ggccgaagcc 240
ttctgcgggc cattt 255
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<210> 660

<211> 255

<212> DNA

<213> Ratte

<400> 660

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tacttactgg ngncnggctn annnnatcag gaaccncang gagcnaang anaanaaggt 120
ntagangcta caaaanntta cagngantgg ancnaaggct aangncaach tggangcctc 180
nannncttc atgnncttgg acatatcngc tanngacttg ataaacatcg agagcttctt 240
cagtcgagan gtgtc 255
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<210> 661

<211> 85

<212> DNA

<213> Ratte

<400> 661

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gagggttttt ttgacatcct gtggg 85
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<210> 662

<211> 255

<212> DNA

<213> Ratte

<400> 662

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ggcttggggt gggccgagaa gctgctaggg cctgctacag tctggcgcta gcacagctgt 120
tgcagtcttt tgaagacatc cagttgtgtg acatcctggg acagatacca gaaaaatacc 180
atctacaagc aatgaacaag ggcattggatg aaacctattt tttttgcaaa cctgtttgaa 240
ggcttgggcc ttttt 255
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<210> 663

<211> 255

<212> DNA

<213> Ratte

<400> 663

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ggctgtccca catagatggg gaaaccaaag cctggataga cctcccactg atggagagga 180
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gggtcaggaa atgaaaagccc tggatagctt actaggactt ccaaggagat gaccggggcc 240
aagctgagga cctta 255

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<213> Ratte

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tggtttctct atatactttt gtgtttttgc attctgcacc attttacaaa ttaaaatgtg 120
ttttctgggt tttttttttt tttacaagct aagaacctag aatagagctg tctgccgcag 180
cctcctaaaa caaaagttta caattgttaa agccacagta tccttttaat tgctaataat 240
caacctttct tcccc 255

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<211> 253
<212> DNA
<213> Ratte

<400> 665
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gnatgaaatc tgtgncngta gtaanacant ntcnnatggn tatacttttt ttgnttnatt 180
tctgaggtaa gaatgttnnga gacaaacntn tggggcatta gattctagta ttaaaacaag 240
tccaatgtgn acc 253

<210> 666
<211> 255
<212> DNA
<213> Ratte

<400> 666
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agttagaaga cttgaatctg gaaggacacg aacaggaatg aactacatga aagtgaagc 180
tggagtaagg catgctgttc ggggtctaat ggaggaagat gctgagccca tctttgaaga 240
tgtgatgatg tcac 255

<210> 667
<211> 255
<212> DNA
<213> Ratte

<400> 667
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gcaatcttag cattcaaac ttcttttcggc atctgtgggt gactgaagtc cttatcaacg 180
atcacaccct ttataagttt ggtgtcctcc agccgccac ctactttgcc ttccactttg 240
atgagttcaa agtca 255

<210> 668
<211> 243
<212> DNA
<213> Ratte

<400> 668
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ttagcatcag gctgctgaag tgcttgacag aactcctgaa ttatttctgg agcgacttgc 180
aaggagggca ggtattcttg ctgaagatac tgaacacatt cggggccccc tttgagatga 240
att 243

<210> 669

<211> 255
<212> DNA
<213> Ratte

<400> 669
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tcgagtgaat gtggcagtta aacataccgg catttttttg accatgcatat ttagctgggt 120
ggaacagagt tgtttccttc ctgaatttca aagataagac tgctgcagtc gcatcacaat 180
attcagtggg gaaatcctga ttgttactgt cattcccatt cttttcgctt agaatcagaa 240
taaagttgta tttca 255

<210> 670
<211> 255
<212> DNA
<213> Ratte

<400> 670
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tgctcttact gctggagcat gctactgtgg catagggact ttaatttttt ttttttaatt 180
tcatactctt tcattccact gtgtaaagtg ctaggaaatt tccaatttga agttttgctt 240
tttctgacat tggca 255

<210> 671
<211> 127
<212> DNA
<213> Ratte

<400> 671
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ngtacct 127

<210> 672
<211> 255
<212> DNA
<213> Ratte

<400> 672
acttggttga caaggctcat caagaagcgg cctactgtgt tgtcagcaga cactttccca 60
gacagcacat cctcagcata ctgcaatata gtgcttagag catcctggat cggggctgag 120
gcccctccca cttgctgtaa gtcacttgag agtccaatca cccggttggg gctaaaaacat 180
gtcttcatga tgaggtcaac tccaatgcgc tcagtgtcat aatcgcata cttcactgtg 240
agaggggtga acatc 255

<210> 673
<211> 255
<212> DNA
<213> Ratte

<400> 673
tgagcaccct gaagggtgaag ggtctagttt tgggcccatt tcacaagaac cagaaggatg 60
aagtcaatga aaccgacttg aaacagattg atcccgattt angctcccag gaagatttta 120
aagaccttct acaaagngcc aagaaaaaga gcattcacat cattttggac ctcactccca 180
actataaggg ccagaatgca tggttcctoc ctcctcaggc tgacattgta gccaccaaaa 240
tgaaggaggc tctga 255

<210> 674
<211> 255
<212> DNA
<213> Ratte

<400> 674
actgggataa agaagttctg cgagccaaga aggacagctc ggaagccttc cttaacgaag 60

gcaatcgtga agtgttactg gaaatcttac ctgatttttg gaattttttac gttaattgag 120
gagaccaccc gagtagttca gcccatattt ttagggaata ttattgatta ttttgagaag 180
tatgactctg acgactcggc cgctttgcac acagcttacg gctacgcggc ggtgctgtcg 240
ctgtgcacgc tcate 255

<210> 675
<211> 124
<212> DNA
<213> Ratte

<400> 675
tcattgccat atacagaagc acagtcaatg tggcggtagc ctacgctaag ggcatattta 60
atagctactt tcacctgacc aggtctcactc ttccatgtcc ccagaccaat cagaggcatc 120
ttct 124

<210> 676
<211> 255
<212> DNA
<213> Ratte

<400> 676
acttgccag aatgtcggga ccaccacga tctgctggac atttgtctga agagggccac 60
agtccagggg gctcagcatg tgttccagca cgttgtgcct caggaaggca agccagtcac 120
caaccagaag agctctggac gatgctggat cttttcttgt ttgaatgta tgagacttcc 180
atccatgaaa aaatttaaca ttgaagaatt tgagtttagt cagtcttacc tgtttttttg 240
ggacaagggtc gaacg 255

<210> 677
<211> 255
<212> DNA
<213> Ratte

<400> 677
acatggctgg aattgatggg gagaagggaac acgctaattg cctgaagatc ctgctggaga 60
tgggcgaggt cttccagatc caggacgact accttgatct ctttggagac cccagtgtga 120
ccggaaaagg cggcactgac atccaggaca acaaatgcag ctggctgggt gttcaagtgt 180
ctgctacgag ccactcctca gcaagcgcca gatcttagag gagaattatg ggcagaaaag 240
accacaaaa agtgn 255

<210> 678
<211> 255
<212> DNA
<213> Ratte

<400> 678
acttcatata tttaaacttg gaatgaggcc aaagcaagaa aaacacaaag aacacaggct 60
gttaattaaa aaaaaaatca agaattgtaa ctagtgnaaa tattatcaca tgaaaaccaa 120
ccccggatta acaaaacaac cttatgatta gacacttaag acctcgattt tttgcttaac 180
tagaaattta caccaccana agttcctgat taaaatacag aaatctataa agctggcgca 240
ggacgtaaac ttgat 255

<210> 679
<211> 127
<212> DNA
<213> Ratte

<400> 679
acaatcagag ttcgtagaag taatgaacga aatctgggcc aacgacaaa tcaggagcgc 60
cgctccttatt tgcgtcaaagc ctggctgctt tgttgacagg gctgacatca acatgctggc 120
ctcttgt 127

<210> 680
<211> 205
<212> DNA

<213> Ratte

<400> 680

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acaaagtggg ggaacttttc ttctatctca cgatggggatt ttctccagcc ttgggtgggga 60
catcaatgaa taacactgac ggacttcaag agcttgccctg tggggggcctg atctactgcc 120
tgggagtcgt gttcctcaag agcgaaggca tcattccatt cgcccatgcc atctggcacc 180
tggtcgtggc cacagccgnc gccgt 205
```

<210> 681

<211> 255

<212> DNA

<213> Ratte

<400> 681

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tttttttttt tttttttttt tttttttttt taaaaagaaa tttttgcctt tattagaatg 60
gcattaggcc ttaaataatgc caattttggg aatcacatta ttgttttaat aagaaacgac 120
tctacagaat tgcaatactg gtccaacagt cttgtctttc ttttaaagca agaaacagaa 180
tgtaagtaac cagaaagcag ggcaggcatc agctaaccga ggagactagc ttcttagatc 240
caagcgtttg cagag 255
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<210> 682

<211> 166

<212> DNA

<213> Ratte

<400> 682

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acctctttcc agatggngtg ctcttgatgg tggatgagat cttggagccc notttctgtt 60
cccacagact tttcttgctc atgtctccag ctactatate ctggcangag ggngncttgg 120
aagcatactg antntgcacc tatnctgtct cccanagagt cttggn 166
```

<210> 683

<211> 255

<212> DNA

<213> Ratte

<400> 683

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actggttaca cactctcttt atagactccc ttntgctgga aaatttccac atgcttttga 60
gagattcccc aaaggggtgac gctatttatc tttagtaagc tatttatctt tgtttttgaa 120
atatcaaacc ctggaggtcc ttttttcagt atgacttttt ttattttgtt ttttttttat 180
tttgtttttt aggttacttt gtcagaagca taacagggta taagttgatt cataataaat 240
acctgtccat cttca 255
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<210> 684

<211> 255

<212> DNA

<213> Ratte

<400> 684

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acatcttttag ttttacaatg cagattaaca gaatacagga attccagcat caaccaagtt 60
ttttttttaca tctttcttgc agttacagat actatttaac aagattccaa tttctaagaa 120
aaacttagtc acaatgctat ttgatcttcc tctaggtctc aaggctgaaa atgttctcaa 180
ttcgctttta acaataacaa ggctcttatt ctgaaatata gcaataccag cctataccca 240
acagtgatcc tacaa 255
```

<210> 685

<211> 255

<212> DNA

<213> Ratte

<400> 685

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acgaatttgg tcccagatgg tgaccatcca tgcatacata gcagccactg tgaggtgtgc 60
tggtggcctga ggccctggctc ttctgacttt ggggactgcc acatctgggc tttctcctct 120
atgattnttt ggggttgnnt ttgtagcngn tcatttgggt caagtttaca ctaccgagat 180
```

gattatTTTT tgacaaaaca gggtagcacn agagcaggag atgggttgnng cgggacagtc 240
cggctctgag nggga 255

<210> 686
<211> 255
<212> DNA
<213> Ratte

<400> 686
acaagctttt ntnntttttt tttttttttt tttccaggtt ttaaaacttt atttgcatat 60
taaaaaaatt gggcattcca ataattaaaa tcgnttgaac aaaaaaaaat ggnactntga 120
ttaaacngca ttttataatcc tgcaagacat ntttatctta ctctnaattc caccatntcc 180
caccagntt tttccttnac caacatgcaa gttcttttcc ctntctgcca nccaggccag 240
naggtgggag gcan 255

<210> 687
<211> 255
<212> DNA
<213> Ratte

<400> 687
acaattttga ttttccacat tgtggccttt taaacaccta aaatatTTaa taaaaagaga 60
atttctccat ctctgtgtcc tctatcagtg tgcacagtct cgagtaatga cccaacataa 120
aaattaagcc aaatgtaaag ccagccacac tgtcctcaga acagtgggta tcccccttcc 180
ttagtgcttg acatcttctt agtggtttgtg agaaaatagg tttaaatctg aatattcaca 240
gtgaaaagct gaaat 255

<210> 688
<211> 255
<212> DNA
<213> Ratte

<400> 688
acgtcttctt ttggtccttt aaagaaatgg ctgcatcgat cttctggacg gtttcagggg 60
ggcccagagt gtgaatgctt ttaggataac ctgctagctc ttcatgacct cggatagccc 120
agatctgatt tcttttaaga atgaaaacag tgtctctgtt agtaacttca tatgcagcat 180
ccatgttggg tggaaagagac ggccaaaatg aagagatcaa ataaaagcca ggctcagggg 240
tcttgagaga ttttc 255

<210> 689
<211> 241
<212> DNA
<213> Ratte

<400> 689
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ctctaagctc atcagttctg agttcacctg agctccttta tttcaaatgc agtccaggtg 120
agatggcaaa tcaagtttgt cagaacaaat ttaccaccac cttcccaagg gaatttcata 180
actcagaata ctcacaggaa cctagacatg catgnttaaa tattatttaa tgaccgactg 240
t 241

<210> 690
<211> 255
<212> DNA
<213> Ratte

<400> 690
cggactaagt agctggcgaa gcanctacat gcaentgacc agnacncttc taagtgccan 60
ganctgtctc ccaaataagt gaaggagatg naacagttcg tgaanaanta tgatanCGna 120
gctntgnngc tntgcnacgn gaaccttgcn ttcgagatga atgcttaagg tgacaaggag 180
cncaacctg cgggagacan aaacncccca gcnacngtgg gtncaagga caantctgna 240
naagccaaga anacc 255

<210> 691

<211> 252
<212> DNA
<213> Ratte

<400> 691
acaagtttaa ggcatacaaaa tgactaatta tagacgataa taacagtctg gatccctagga 60
ggcaactgga ggcggttttaa ttggaaataa gcatttgaga taatgttaac agcagtgcag 120
aaaaatgaag ttaaaaaacaa aatcagtgtt aagaagcctt ccgtccctgca ccttgctttt 180
aatcatctcc tccacagaga atgagcagaa ccttcctgta gtctccagaa gtgtcgccct 240
tgataaaaga gt 252

<210> 692
<211> 242
<212> DNA
<213> Ratte

<400> 692
accagcgctt agggggtaga ctatgaggag cgagtgtctg cgtccattgn taatgagggt 60
ctcaagagng tgggtggccaa gttcaacgcc tcgcagctca ttaccagcgg ggctcagggtg 120
nctctgttga tccgaagaga gctgacagag cgtgccaaagg acttcagcct catactggac 180
gatgtagcta tcacagagct aagcttcanc cgagagtacc tgcccggncn ggccgctcga 240
aa 242

<210> 693
<211> 255
<212> DNA
<213> Ratte

<400> 693
cggcgatatg tgcgcaagtt tgtgttgatg cggggccaata tccaggctgt gtccctcaag 60
atacaaaactc taaaatccaa caactcaatg gcacaagcca tgaagggtgt tactaaggcc 120
atgggcacca tgaacagaca gctgaaatta ccccagatcc agaagatcat gatggagttt 180
gaacggcagg cagagatcat ggacatgaag gaagaaatga tgaatgatgc cattgatgat 240
gcaatgggtg atgag 255

<210> 694
<211> 255
<212> DNA
<213> Ratte

<400> 694
accttacaga tgacgagact tctgctcagg ttcccttgac tgaaggcat aagtttgacc 60
gggatgtgga actcctgatt tactaccgtg aagtgcacag ccccagtgtg gctgtggaga 120
agggaaatgca ggacaagaag cgagatagtt tgatgggagc tccttggtgca atgggtgagct 180
tctaccagaa catcccagaa gtgaacgcct caaaggctctg tggagaattt gtgtttctaa 240
tggaccgctc aggaa 255

<210> 695
<211> 183
<212> DNA
<213> Ratte

<400> 695
ttcgggttttc gagcggccgc ccgggcaggt acacctcggt ggtgtgaagg aaaagagaga 60
tcctgtccgg cgggtaaacc aggagcagta ggcgctgcag gaaccgaggt aggaaggag 120
tgggctgctc cacaaacacg ggcagaagca cccggggggg aggctgaccc cccgggagag 180
gcc 183

<210> 696
<211> 183
<212> DNA
<213> Ratte

<400> 696

accatgtttgc atgtggcttc ctctggatat atctaagccc ttctgcacat ctacacttan 60
 atggagntgg tcaaagggaa catctgggtt atgccttttt tacagtagct ttaggaaccg 120
 tcggcatgtt gctgttgaag tgtggagttg tgagccgtgg actgtggaca gtcnacagcg 180
 ngt 183

<210> 697
 <211> 255
 <212> DNA
 <213> Ratte

<400> 697
 acaaacgcta gaacttcact cagcagagag ataaaggcgt aacacaaccg cccacccaag 60
 gtaatggtgg acagcaaggc tggaatcctc atcctgcaag caagaagagg gggactgcaa 120
 agtggagttt gtgggtaacc ttantctctc cttgctactg aattcataaa gnaagaggcc 180
 tttaaaaata acccaacccc tttaattttc tactacataa taggattata aggccacaga 240
 attccttttg ggaaa 255

<210> 698
 <211> 245
 <212> DNA
 <213> Ratte

<400> 698
 tacttncaga caaacccata cttcacaaaac atggtgatcg tcaaggagtt ccagcgcaac 60
 cgctcaggtc ggttggtgtc tcattctacc ccaatacgtt ggcatacggg acaggaaccc 120
 caggtctgca atcgcaggag ccacgacacc agagaaagct tcttcaactg gttttccaac 180
 cacagcctnc cagaagctga cagaattgct gagattatca agaatacct gtgggttaac 240
 ccagt 245

<210> 699
 <211> 166
 <212> DNA
 <213> Ratte

<400> 699
 acagcgcccc gcagagacgg cgctgaacc gaggcctgcg gaggaagcag cactcactgc 60
 tcaagcgctt gaggaaggcc aagaaggagg cgccacccat ggagaagccg gaggtcgtga 120
 agaccacact tagggacatg atcattctgc ccgagatggt cggcag 166

<210> 700
 <211> 194
 <212> DNA
 <213> Ratte

<400> 700
 aaaaaaaaaa aaaaaaaaaa aaaaaaagct tgtacacggc caggtgtcct tcctcgatct 60
 tgtggatgga ggcctntaaag gaggatccgc caccaacccc accactgnan ccacaaaaag 120
 ccgggcttga gtcattatca tccttgntcc tccggtcagt gacgcacgcg ccccgcccgc 180
 acgtgcaagn ccgc 194

<210> 701
 <211> 239
 <212> DNA
 <213> Ratte

<400> 701
 acggccgcaa atacatccag acagacagcg gccctactg tgttccctgc taagacaaca 60
 ccttcgccaa cacctgtgcc gaggatccgc agctcatcgg ccgcgattca agggaactgt 120
 tttatgagga tcgccacttc cagcagggtt gcttcgcgtg ctgcgcgtgc cagcgctccc 180
 tcgcccgatga gcccttcacc tgtcaggaca gtgagcttct ctgtaatgag tgctactgt 239

<210> 702
 <211> 255

<212> DNA
<213> Ratte

<400> 702
ttcggcttttc gagcggccgc ccgggcaggt acgcttccat tatgccatca ttgggttttt 60
gaaaatgagt gacaccctag ccgtttatat ctttgaagaa aaccacgtgg ttcaagagaa 120
gatctgggtct gtgctcgagt cccaagggg tgtttggatg caagcagaag tcagctttta 180
gaagcccatg cccacgaagg tggcttttat gaggctatgc aaaagctttt gggactgtgg 240
actggttagcc ctgga 255

<210> 703
<211> 255
<212> DNA
<213> Ratte

<400> 703
aggtacagag ccaggcagga ctctgagcct ctggaattag ggaggctctg gtgcagaatc 60
tgaacaggca gacagacag cagggcagaa gcggcctttg aagaatgatg agctgtgacc 120
ccgcgcctcc gctccacttg cctccagccc cttctcctac cacctctatt tattatacat 180
cagggttgga gtgggggttg tgtccttagg ggctcaagtt ccttctctca gctgggacag 240
gagatggctg ctcaa 255

<210> 704
<211> 255
<212> DNA
<213> Ratte

<400> 704
agaggctcag aatcgatcct ataaatgaaa gatcctttat atgcaattat aaagaacact 60
ggtttacagt tagaaaatta ggaaaacagt ggtttaactt gaattccttg ttgactggtc 120
cagagctaatt atcagataca tacctcgac tgttcttggc tcagttacag caagaaggtt 180
attctatatt tgttgtaag ggtgatctgc cagattgtga agctgaccaa cttttacaga 240
tgatcaaggc ccaac 255

<210> 705
<211> 255
<212> DNA
<213> Ratte

<400> 705
taggatgcag aaacggtagg tcgggagaa actggaggct cctcgccaaa tatcacaatc 60
atgatctgaa taagttccag caactctgac cgtgggtgtt tccagtcagt taggtaaggc 120
aggtagattt tccattttgc atccacatgc tttcctgttt taatagtcag tgaactagta 180
ggcttaacaa aacagatagg ggggttatat ggggtatgtg ccaggagcca caggcatatt 240
ggaatgttat atata 255

<210> 706
<211> 255
<212> DNA
<213> Ratte

<400> 706
acacacacag agggagacag agactcagga aggatggggc tcgggcacac ttgctgctgg 60
tgtccactcc tccccttgcc tgctgtctgt ttcccacagg agatcttggt tctagcgtga 120
ataaagcagg gtggacctgc ccttccctn ccgacttcc tccacactgg gttggaaaagg 180
gctatcatgc ccaagtcgga cggaccaagg tggcagatgg gttagggctg aagagtgggt 240
gcacaaatgc tcaca 255

<210> 707
<211> 255
<212> DNA
<213> Ratte

<400> 707


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cttcatcctg cgtgttgga aagctctgaa tgagcgcaaa gctgaagtga gacttcagtt 60
ccgcgatgtg gcaggtgaca tcttccacca gcagtgcagg cgtaacgagc tgggtcatccg 120
tgtgcagccc aatgaggcgg tatacaccaa gatgatgacc aagaagcctg gcatgttctt 180
caaccctgag gagtctgagc tggacctaac ctatggcaac agatacaaga atgtgaagct 240
ccctgatgcc tatga 255

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<210> 708
<211> 107
<212> DNA
<213> Ratte

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<400> 708
acctgtgccc tgttaaactc ttccaaaaca tgatggctcc atcagttcca caggtcataa 60
cccattgatg aggtgcccc ttggccttcg tcccaacaca gacaaaag 107

```

<210> 709
<211> 163
<212> DNA
<213> Ratte

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<400> 709
accaagaccc agtctganat aggtggataa gggttatgct ttattgatct acatagagag 60
tttacgaaat atgcgtgtgc ttgcgtgtgc acataaatag tattagaggc gggaatgaag 120
ggcctggatt ttaaaaaaag aaaaaataa agagagcaga att 163

```

<210> 710
<211> 255
<212> DNA
<213> Ratte

```

<400> 710
acctccaaaa gaaccatgag gagggaaatg ggagatctgc aaaatgcatc agggggggaac 60
atcaatgttg agatgaacgc ggccccgggc ctggatctaa ccgccatgtt gaacaacatg 120
agggccgaat atgaagantt ggctgagcag aaccggaaaag atgcagaggc cagttttaaa 180
gagaagagtg catcgctgca gcaacagatt tcagacgacg caggagcaat cacggcggcc 240
agaaacgagc tgatc 255

```

<210> 711
<211> 255
<212> DNA
<213> Ratte

```

<400> 711
accagatctt accggaggtc tcgaggagcc agagaagcaa agagtcacag ggaagcagaa 60
tgatttgtca gaccagagca ggtgtcagac ctctgaggaa ggaaacaagg ggctccctgg 120
gaggcctgtg ccgagacggg ctgttccagg acaccggcca atgggtccgca gacacacagt 180
caatgacgca gccatacttc aggtcccaga ggtgactggc cacctgacca cccaagaggc 240
tggtgtttct cggtc 255

```

<210> 712
<211> 255
<212> DNA
<213> Ratte

```

<400> 712
acttcgaagt gctgggcacc acctcgtgcg ggcgaaggag aaccttgttg ataagatctg 60
gacagaccgg ccagagcgcc cttgcaagcc ctctctcaca ctgggtcttg attatacagg 120
catctcgttg aaggaggagg ntgcagacct tcggatgaaa atggcggaga ggagcatcgt 180
gtgggggttgn ggcactggcc taagaccgag aatgcatggc tgggtcaaact ccgaggggca 240
agaatgtgga gcaca 255

```

<210> 713
<211> 255
<212> DNA

<213> Ratte

<400> 713

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acaagaggct aggccacttg tgccgacagc cgttccgtgc atgcttcctgc ctttgctgaa 60
cctttctggg tcaccataaa agagctcaag gcaaaactgt cacagggaaa gaaggtgatt 120
tggaagaa gctttgtgct tggttatctc tttaaaccac cacttggaac aaatgggcgc 180
ctgtggcctg ggtccataaac ctggcttaca aacctttgaa gttccagtc aatttgagct 240
tgactgtgac aatat                                     255
```

<210> 714

<211> 255

<212> DNA

<213> Ratte

<400> 714

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ttcggcttag cgtggctcgc gccgaggtac gagacccccca gacctctata ctgcagacca 60
aataccgtgc aagggctgtg acctgcaaaa gtgcggcaga gaaggaggcc gaggaacttg 120
agaaactgca acaatacaaa ttcaaagcac ggggaacttg tcccagaatt tttgaaagtg 180
gccccatctt gcccaagaga ccacctgtta agcctcctac ccagcctgtt ggttttgatt 240
tggaattga gaaac                                     255
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<210> 715

<211> 255

<212> DNA

<213> Ratte

<400> 715

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acaagctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttaaa ggttcaaaaa aatatttatt tataaaaaaa acaatggaaa aaatttatgc 120
tgaaaaatgc agcaataaat acagttaaag ggaacagggc ctttacagta aaacattggc 180
acaaatgaaa tttgaaggca cncacccan acctacatgt ctggggccat ttttgtaaac 240
ccccctttaa agenc                                     255
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<210> 716

<211> 255

<212> DNA

<213> Ratte

<400> 716

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actgcatgct gatgnccacc gggggncacc ggacactcct tgnaggagct aggcctcctca 60
gatcagtgcc agaggctgct cagagaggta agagcagggc agcaagcttc ctacggcatc 120
cacgatggct tccaggtgct catcttctgc ctgaggccca cagagctgca tgaagtctgg 180
caaacgcaac aaggattcaa ggtgtggcc agagaagcct cggcaagcaa ggatctgtgt 240
ggcaatgacc tcttc                                     255
```

<210> 717

<211> 255

<212> DNA

<213> Ratte

<400> 717

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accagagact tgntctgtat ctgtgggttc taacctgnt tcccctactc ctgagccatc 60
tgcaagcaaa cttatggttt caactcactc tgaacagggt tcatctcatg agatgccact 120
tccagttaga ctcccccttc ctacattgca gtctatggct cctgctgggc ccaccccttc 180
tacagtggcc acgccattgc ctttccctcc gagcttacct cctctgcttc ctcttctctg 240
aagtggctct ggtgt                                     255
```

<210> 718

<211> 255

<212> DNA

<213> Ratte

<400> 718

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ggcttgctg gctagttcat gtgggagagt ccttgctatgc cttgggtattg tgcaggcgta 60
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caggaatcac agacagccag gccagctcc tctggttcct acagactttt ctgtttgggtg 120
tagcctctct ctccatcctg tttgcttaca gaccaaagca ccaaaaacat aattaaagga 180
gaaagcgggg tttccctttcc acttcttcaa gcctctcctc agtgggtcct ggtttccagg 240
atgatctctc tgtct 255

<210> 719
<211> 197
<212> DNA
<213> Ratte

<400> 719
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ataggctgaa aacaggctga gtgagacagt cagcaacact ggttttgctt cagttccttc 180
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<210> 720
<211> 255
<212> DNA
<213> Ratte

<400> 720
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tcaaaagnat acccaacctg ccttcagaag gacagcccgc attgggtgga gatccacagc 180
cttagagacc ttgctgcaag cacacacctg agcaggaaga aatgcgctcc ttcccaggac 240
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<210> 721
<211> 255
<212> DNA
<213> Ratte

<400> 721
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tgcttcagcc tcttctggtc aagatagtgc ccgatgaagc ccatactcct tcccagcaca 180
aagacgccat tgagggtccc aatgtcaaca taccgccag cttcctcccg ggtgaaggag 240
ccacagttcc taagg 255

<210> 722
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<212> DNA
<213> Ratte

<400> 722
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aggtatatgt taactaaaca cttttcaaac taaagctcat tctttaagga ccctctggag 180
accatatgaa tgtttgtgta tgggtgtgta tataattact tatatcctga attctactta 240
attttggctc tctta 255

<210> 723
<211> 81
<212> DNA
<213> Ratte

<400> 723
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agccgaatta cagcttgagg t 81

<210> 724
<211> 149

<212> DNA

<213> Ratte

<400> 724

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aataaccaat aagaaatgaa gaccaaccac ccatctataa aacctcacct tatcctttga 120
atccaaatct gacagcatgg aagatcaga                                     149
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<211> 255

<212> DNA

<213> Ratte

<400> 725

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gaccgaatcg acaaagaaga aatgggaaac ggaaagaaaa ctggggcatt tccttttcct 120
cggtgtttta atctggacaa aagcctaact cctggcatca ggatgctact gtgactcaag 180
agagaagcta gaactgcact agtcacgaag gtcaagttca acctctagga ggatggagaa 240
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<210> 726

<211> 255

<212> DNA

<213> Ratte

<400> 726

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ttggattctg ttgacctgat ttagctttct ttattttggg ctcatcagat tcctcctgag 180
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<210> 727

<211> 255

<212> DNA

<213> Ratte

<400> 727

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gttatcactt gatagaaaaga atagaaaatg tttctactct taccctgcta gcgttgagta 240
gtgttaaata ctata                                         255
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<210> 728

<211> 255

<212> DNA

<213> Ratte

<400> 728

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ggcaagtgca attctagact gagcatggtt ttctggaaca gatgatcttg gatgatcagg 180
aatccgagga cctggaccgt ccatcattga gccaccagtt tgctggagca cagacatggg 240
tgttctagca cttcc                                         255
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<210> 729

<211> 255

<212> DNA

<213> Ratte

<400> 729

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<210> 730
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<400> 730						
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atgcctgtgc	caacccagcg	gctgggactg	tcatcctcct	ggagaacccc	ccccctcaag	180
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<210> 731
 <211> 255
 <212> DNA
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<400> 731						
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acccaacaan	aagangngnc	annnggnggn	caaacngcct	ngggnnnnng	gaggaaanga	180
agcngnncca	annngaggnc	acaagggngc	ggaaagnnc	ngncnngang	naaaannagn	240
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<210> 732
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 <212> DNA
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<400> 732						
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ggtcaccaag	catattgcac	atcacagaga	gagagagaaa	cattttgtgca	tcctcagtaag	180
tttgcccaga	gtgtccaact	ctagactttt	tattttttag	aaacacattt	acttttttgtg	240
cgtgtataaa	ataaa					255

<210> 733
 <211> 255
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<400> 733						
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agaaggactg	tatctggact	ggactgagac	acaagtggaa	gagccccgac	tatctcccag	180
agactatgaa	cctggagaac	gtgaagctgt	tgtggcccat	gggacacctg	taggagcaga	240
aatgtgactt	tggat					255

<210> 734
 <211> 255
 <212> DNA
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<400> 734						
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aaacgagagg	aggaatgata	aagtataacc	tgncagctt	gcacacagac	tggcaagcaa	120
atgacacaat	gaggacaatc	agcgaggggc	acatgaacct	caggaagaat	cgtggaccac	180
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atctcatggg	tctgg					255

<210> 735
<211> 255
<212> DNA
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<400> 735
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gtcacccttg gctgggaaca aggacaagtt ttccctttct ttctctaaca gaaaactcct 120
gggctccaag cccctcaggc cggcgagcag cctggcgtg ttcgggacct tgcagagctt 180
caaggaggac aaggccaagc ccgttcgaga tgagtatgaa tacgtatcga acgacgggga 240
agctgaaaat tgacg 255

<210> 736
<211> 255
<212> DNA
<213> Ratte

<400> 736
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aaaccacagc atctactgat cctgctcctc agcaaggctc tggcttcttt cctgagtatt 120
tgggtctaag tagtagtggc cggtttggtta aacatacagg cttttaattt ctgtggacag 180
aagtttggga atcgttgggc ttgaagccca aggcccccta aacgtggccg ggttaacaat 240
acctttaact aactg 255

<210> 737
<211> 255
<212> DNA
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<400> 737
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ccgccccaac atagaacggc caacaaaatg acaaacgcc aggctgcata gatacctcca 180
tattgtctgt caggcttcca tgcgccaaaa gcaaggccag tggcagtgcac tgccaagagt 240
aaaccaagta agaag 255

<210> 738
<211> 255
<212> DNA
<213> Ratte

<400> 738
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tttaaacacg agaacttctg ctgccaactc tgccctgctg gcactcacct cattaatcca 120
tgccacagga accgngngtg agagtgaatg tgccccatgt caagctcaac acttcataga 180
tgtgaacaac agggaaacctg gctgctctcg cttgctctaa gagccccgga ttgaccaaga 240
aagaaagtgt tcgaa 255

<210> 739
<211> 227
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<400> 739
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ttttaaaact cctcttgctg agctgcccag taggggataa ttggcacagc ttttccaaag 180
aacctaattc aaaccaggca tgggccagca cccctggtaa tcctagt 227

<210> 740
<211> 255
<212> DNA
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<400> 740
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 gttagctgag ccacaattgc acagtctgtg agaccattgg tgtctgaggt tgctgagtcc 180
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 ttaaaacaaa tacct 255

<210> 741
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<400> 741
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 cacagtttgc catgtgggtg gacgcgggtca tctttgtctt cagcttggag gatgagatca 180
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<210> 742
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 <212> DNA
 <213> Ratte

<400> 742
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 tttgccagac tcttgggtcat gaataacttt gtgggttcgca ttgaatcctg aactgaacat 120
 tgttgactac ctatgtacct ccaagtaaac tgagaactac ctagcaaaact ctgaacttca 180
 gtccgggtggg ccgagctggg tcttctcttt tgtagttttg cagtataagg tggtgatata 240
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<210> 743
 <211> 218
 <212> DNA
 <213> Ratte

<400> 743
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 tgctcttgc taagccgctg ctttatctct tcaatggctg ccttcttgcg ctccaccttc 120
 cgcttggtga agcctgtcag gtattcccg cgtctctctt catcaaagt gaggatgagc 180
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<210> 744
 <211> 175
 <212> DNA
 <213> Ratte

<400> 744
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 aacatttgat gttactgcaa cgttttcagg tgtggatctg gaaggtggca cttgtagtca 120
 ccttttaatt ccgataaag tgtctctctt ttacctgcc actcacgtga ctatg 175

<210> 745
 <211> 255
 <212> DNA
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<400> 745
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 ggaatcagcc cttgttccca accagtgcag tgggcatctt caggcagaac tcaagaagct 180
 agcagagggt ccataccacc tctacaaggc ccaagggggc ttgtgggtaa gacagcaaga 240
 aaaaaaacta tagtc 255

<210> 746
<211> 255
<212> DNA
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<400> 746
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tccactccag ccttc 255

<210> 747
<211> 255
<212> DNA
<213> Ratte

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cagaaacctt cagacagaac atagaggaat taggcattat taaaatacac tcttgccaag 120
ggattnaaca ttagaatatg ggggggggat gggaaacaca ggacaactca nccactgcag 180
gggaagcgag cagaccctgg agacagccac acgtaggcaa agggtagctt tccccacaa 240
acttctacct ccacc 255

<210> 748
<211> 255
<212> DNA
<213> Ratte

<400> 748
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aacctccaag tggtggctca atgacggatg aacatgggca tcagagacca gtagctttct 120
tggcttacag agtaaaccga cagtatatta tggaaggact tgcgtctagc tttctcttca 180
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tcaatagggt tcttc 255

<210> 749
<211> 255
<212> DNA
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<400> 749
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cgactaattc cttacgcgta gcaccagacc accggcgtgc cccaccatgt cagacgcggc 180
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ggaggcagag aatgg 255

<210> 750
<211> 255
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<400> 750
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tggcttttac actga 255

<210> 751
<211> 255
<212> DNA
<213> Ratte

<400> 751
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 tggtccttct ggtgt 255

<210> 752
 <211> 255
 <212> DNA
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<400> 752
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 aagagcctgt catcatgaag ttcattgagg cagggtgatct ggctaagcc agggcagaca 240
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<210> 753
 <211> 255
 <212> DNA
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<400> 753
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<210> 754
 <211> 255
 <212> DNA
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<400> 754
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 attcagcctc ccaga 255

<210> 756
 <211> 218
 <212> DNA
 <213> Ratte

<400> 756
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218

<210> 757
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<212> DNA
<213> Ratte

<400> 757
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ctgaaatgga agacccaac cgctccccg taggcccgtga agtgctggac cctgagcata 180
ccagccccctc gttcatgagc acagcatggc tagtcttcaa gactttcttc gcctctcttc 240
ttccggaagg cccac 255

<210> 758
<211> 255
<212> DNA
<213> Ratte

<400> 758
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gactntacag aanggcanaa ntggaccaac anccttgtnn ttcntttann gngnnaacca 180
tacnggntgt aacnanacaa gcanggcnaag gnatnannta ncccagnatn ctatcttttt 240
taaaccacaag nnttn 255

<210> 759
<211> 255
<212> DNA
<213> Ratte

<400> 759
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ctgcgctcct tgaaccagac aggggtgcag ggagcccctc gccctgactt tagtactggt 180
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atcttcattt tagtt 255

<210> 760
<211> 255
<212> DNA
<213> Ratte

<400> 760
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cgctccttga accagacagg ggtgcaggga gcccatcgcc ctgactttag tcaactggctt 180
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ttcatttttag ttcag 255

<210> 761
<211> 255
<212> DNA
<213> Ratte

<400> 761
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acctccacct caagcctcag agtgactgac gcatttgcca agctcatgtc tacagtggaa 180
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aaggatgatc tcagc 255

<210> 762

<211> 255
<212> DNA
<213> Ratte

<400> 762
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<210> 763
<211> 255
<212> DNA
<213> Ratte

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gannctttgc aaantttccan cctttnaana annanggctt gnccnagaat tttcncncn 180
aatngggaat nggggttcan tnaccnngn ttggnncna atgntaaacc cnccttttnaa 240
ccngnccgaa ntctg 255

<210> 764
<211> 255
<212> DNA
<213> Ratte

<400> 764
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actgnaaaca ctcan 255

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<211> 255
<212> DNA
<213> Ratte

<400> 767
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gccatcagaa gtccttactc tgctcctctc gggctgaagg gcccgggggc agtgcttcag 180
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<211> 255
<212> DNA
<213> Ratte

<400> 768
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<210> 769
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<400> 769
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<212> DNA
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<400> 770
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<212> DNA
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<211> 255
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<213> Ratte

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gcctatgtgg ccaccccaca gaaccctggc tacctggggc ctgctcccga agaggtcatt 180

gccacacaga tccttgcttg ccgaggctta ctctggccac aaccttgaat acttgggnagc 240
gnttggcgagg acttc 255

<210> 773
<211> 255
<212> DNA
<213> Ratte

<400> 773
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ggattattga taatc 255

<210> 774
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<400> 774
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tccatttaatt ctgcc 255

<210> 775
<211> 255
<212> DNA
<213> Ratte

<400> 775
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ctgggtggctg cctgt 255

<210> 776
<211> 255
<212> DNA
<213> Ratte

<400> 776
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tcacctacca acccatgagg aacaaggact tccagggaagt gacactggag aggggaaggcc 120
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gcttgaatgg agggg 255

<210> 777
<211> 255
<212> DNA
<213> Ratte

<400> 777
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aacagtggat cgtcattggg agtgggtttgt atccccagtg agactctgtc caaaagaact 240
gatctattta caaat 255

<210> 778

<211> 255
<212> DNA
<213> Ratte

<400> 778
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agtacctcgg ccgcg 255

<210> 779
<211> 255
<212> DNA
<213> Ratte

<400> 779
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tgaagggaatg agacagatgt tgctcacaga acagctttct aagcaacaaa gtaatgatgt 180
cagtaaaccc agaaaacgtc ccagagaataa aaaatggcag gtgctggaaa aacgatggcc 240
agagactctc aggac 255

<210> 780
<211> 255
<212> DNA
<213> Ratte

<400> 780
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tcttacttgg gttactcttg gcagtcactg ccactggcct tgcttttggc gcattggaanc 240
ctgcnacgca atatg 255

<210> 781
<211> 255
<212> DNA
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<400> 781
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aaaggctgtg tgaactagat ttcataagga ccaggtttgt aacaatgtta acagttccat 120
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tccacgaact ccagaggaaa cattaacaca atatgaaaag acgaaagaaa gaaagaaaga 240
aagaaagaaa gaaag 255

<210> 782
<211> 255
<212> DNA
<213> Ratte

<400> 782
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atgcgttggg agtgccgtgt ctgctttgac tatgatctct gcacgcagtg ctacatgcac 180
aacaacacatg accttaccga tgccctcgag cgctatgaga catctcactc tcgcccgggt 240
acgctgagtc cccga 255

<210> 783
<211> 121
<212> DNA
<213> Ratte

<400> 783
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<210> 784
<211> 255
<212> DNA
<213> Ratte

<400> 784
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acagaagctg cccacaggag gcaggacagt gcttaggtca ttcattgatga ctgatttcgt 240
gatcagacta cnngt 255

<210> 785
<211> 255
<212> DNA
<213> Ratte

<400> 785
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gtagcatcaa acatttccag agaacaaata tccagccacc agccacagat gagaggggaa 180
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aagcgacgag accta 255

<210> 786
<211> 255
<212> DNA
<213> Ratte

<400> 786
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atgaaccctt gcactacca tgactccctt tgaaggctgg ttcttccagc tatgcttgat 180
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agtttttata gtagt 255

<210> 787
<211> 255
<212> DNA
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<400> 787
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ctgctggggag aagct 255

<210> 788
<211> 157
<212> DNA
<213> Ratte

<400> 788
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tccggatccc aaaggcaatg gtgtaaacgt caaatct 157

<210> 789

<211> 255
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<400> 789
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cccacacagg gaagatgccg tgtggacttg aaggcagaga tcagaacaat gtatctacaa 240
gccaaaggaat gccaa 255

<210> 790
<211> 127
<212> DNA
<213> Ratte

<400> 790
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ccaaacttag ctgataagtt gctgtcaaga ctgggagtct ctaccacaga gagaagcctt 120
ggagagc 127

<210> 791
<211> 255
<212> DNA
<213> Ratte

<400> 791
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ctcacgggca gntga 255

<210> 792
<211> 255
<212> DNA
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<400> 792
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tgctctgtca cacataaccg ggagcaagtc acgtatttta caggatatgg gtgtgtagat 240
gtgtccacag taatt 255

<210> 793
<211> 255
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<400> 793
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atgccggatt ggctactctt caccacagac attagcagat cagtcttcaa aaataaagaa 240
aggaagcaaa ggaga 255

<210> 794
<211> 255
<212> DNA
<213> Ratte

<400> 794
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agtgcagagc cccaccacca ggtcggcaat gaaagtgtcc tcagtctccc cagatcgatg 120
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cacagagcca atctggttca ctttgagcag gaggcagttg caggactttt cgcccgagc 240
cttggcgatc cgctt 255

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<210> 795
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agaagctnct ccagatccat gctctaactg aaggggaacc acaggctgcc gctccttccc 180
acagctccag tttgcccctg gcttatggtg ncaccagctc tgtgggaacc atccagggag 240
ccgggcccag nactg 255

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<210> 796
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<210> 797
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gggcaccaga gccag 255

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<210> 798
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 798
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tcccgggccc attcg 255

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<210> 799
 <211> 255
 <212> DNA
 <213> Ratte

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<400> 799
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agcttctaag aaaaa 255

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<210> 800
<211> 255
<212> DNA
<213> Ratte

<400> 800
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tggattttgc aactg 255

<210> 801
<211> 255
<212> DNA
<213> Ratte

<400> 801
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cnggcctna angga 255

<210> 802
<211> 255
<212> DNA
<213> Ratte

<400> 802
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agcttgagaa agagattgtc gagcaagcgg atnaggacag cattgcagac cgnccanaga 240
gcaaccgcaa aacng 255

<210> 803
<211> 255
<212> DNA
<213> Ratte

<400> 803
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ancatcantt aagaaaggcc caanagtang atgctgtttc ttttaaaata atttanaata 120
tattaactnt cctaaggcag attttgtgtg aggcggtgnt gaatagggtan ctgntnccgn 180
tgccaaagaa cggcgcttgn aaggnnctgn ctgntctgna canttgangc gnggggtaaa 240
tccntnagg cacnc 255

<210> 804
<211> 114
<212> DNA
<213> Ratte

<400> 804
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atcctggaaa ggagatcacc tggaaacact ttgtgcagta ttacctggcc cgag 114

<210> 805
<211> 255
<212> DNA
<213> Ratte

<400> 805

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ttgggaatat	tgtctcangc	tcttttgaatg	ngtggtggnt	tnnnannant	nttgncnngn	180
nnnnangatt	ttagnatnc	gttgccctta	ncgagatngg	nttncntggg	tcttannttg	240
naccggaatt	ancca					255

<210> 806
 <211> 255
 <212> DNA
 <213> Ratte

<400> 806						
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anacnatatn	acgaatggac	gccttcaaaa	atgtccccac	acagnccang	gtggcctacc	120
ggnaactggg	catntgtg	gatttgtatc	ctacaggttt	gggtttctct	ggagacccca	180
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<210> 807
 <211> 255
 <212> DNA
 <213> Ratte

<400> 807						
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cacttaaat	caccaaagt	cagcagtcca	ggcagctgga	aggcacccca	acttncaaac	180
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<210> 808
 <211> 255
 <212> DNA
 <213> Ratte

<400> 808						
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tnccgctgcc	gcccggggag	tatatagtgg	tgccctccac	cttcgagccc	aacaaagagg	180
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<210> 809
 <211> 255
 <212> DNA
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<400> 809						
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ggtgttgaga	gcagaggagc	agctacaaga	atcagtattg	tggttcattc	cagtgtttat	180
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tactacgtca	ggctgtgtga	ggttttntant	tgctgccttn	ccttangnnn	ataaganctg	180
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<210> 811
<211> 255
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gtgttaaate ctata 255

<210> 812
<211> 255
<212> DNA
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<400> 812
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ccaccatatt gncctatct ccgncctctg natgtgaca caatcacatg atgaatcagg 180
acggctgtaa gagctgnatc tgataacttc agngnaaaca acaatgngtt atatttggat 240
ttttattaaa tcaag 255

<210> 813
<211> 175
<212> DNA
<213> Ratte

<400> 813
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aaacagtcac gcagacgggt tctgggtttt ctcacagggt gtaaggcca ggctgtccat 120
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<210> 814
<211> 255
<212> DNA
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<400> 814
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gaataatggg nggntctatc tactggacan cngtgactta tggagcagtg acngngatgc 180
aggttgtagg ccataaagaa nggctggang ttatggagcc gagctgacct tttatttctt 240
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<210> 815
<211> 255
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<213> Ratte

<400> 815
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atcagtgggg gaggtgagtc agacgtctat gtgggtcatgt gcagaactgg tggatcaggc 180
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aaggagaaga aggtg 255

<210> 816
<211> 255
<212> DNA
<213> Ratte

<400> 816
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 tcccgtgagg tcaag 255

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<400> 817
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 gtggccctgg ctaccaagcc cctgacagcc cgttaccagg aggatggagg ttttgacttt 180
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<210> 818
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 <213> Ratte

<400> 818
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 tctgagagct tctcctcatc ctctcatga atgggagatg atggagaccg caggggtgctg 180
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 <212> DNA
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 gttacaagcc ataccttaat tatttccagac nataaaaaaa aatgaacaga aacagaaaat 180
 caaactttta tctcatgntc tttttcccta gaaaattaaa ctaagaataa aaggcatttg 240
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<210> 820
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<400> 820
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<210> 821
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<400> 821
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 gaacatagag ccagg 255

<210> 822
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<400> 822
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 gaccagaatg ccccc 255

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 actgttntcn gnnttcacta tctgacagaa cctcataagc agcaccana tctgttaatt 240
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<400> 824
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<210> 825
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 taccttggtta ccgtcatgct gtcagggatt aagtgccaa cctttcgtcg agaaacagat 180
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<210> 826
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<400> 826
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 ttgggactgn gatctccaga acctgctaatt ctccagattct cctctggagn ttcttcaggg 180
 ctanactctc atttctgagc ctcanctggn ctggaatcaa ggnctctggg ctctgntngg 240
 ctttggcctc cagtc 255

<210> 827
<211> 255
<212> DNA
<213> Ratte

<400> 827
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gccaaaaacc aaaaagcaaa caaacaaaaa ccagctttca gcattacatt ctgggaaact 120
gaagtgttg atcttattca aagttttagt tctctttttt agttactaca atactgataa 180
acaggatata ctttatatgg atcagatagc caggatataa ttcttgtatg tgaatacttt 240
cattaaagca aaaga 255

<210> 828
<211> 255
<212> DNA
<213> Ratte

<400> 828
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cacaggttgt tcgaaatgct gctctgtttg ccctgggcca gttttcagag aacttacagc 180
cccatacag cagctattcc gaggaggtaa tgcccctgct ccttacctac ctgaagtcaa 240
gtgcctatgg gaaac 255

<210> 829
<211> 255
<212> DNA
<213> Ratte

<400> 829
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nacnannccc tttnnnctc ncacctnanc cacnctgat cntctnact ncngatnct 120
ncgtgccttg nncntgaggt cncctcanna gttntacgta atnctcctct nnttgcccn 180
gaaccacctn ttcagantac ttncnncnc atatcntcan ctattccctt gtnggtaant 240
gnccctgctt ccta 255

<210> 830
<211> 255
<212> DNA
<213> Ratte

<400> 830
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agtgttgatt tcagggtcaat ggccggcacc ctcccttccc tcttactgtt gaagtctctg 180
aacctgtggg tctcaagtgg agcggcacia agccaaggca ccagcgcatc tcagtagcag 240
gatatatcca tctta 255

<210> 831
<211> 255
<212> DNA
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<400> 831
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tcaatttatt aaaaaaagng taanatttca atctgttaan atttgacttg taagcttttt 120
acacatttct attttttttca anatttaaaa aacncaagga aaatgaaana attttttttc 180
canaccactt tatctgaatc actgaaatta aatgaagcct gnggcctana ctccaggggccc 240
taaattngttt tttga 255

<210> 832
<211> 255
<212> DNA
<213> Ratte

<400> 832
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 acaggattct agacctgctg ttcatctgtg tctcctgctt tgaatacaag ggaaagcaga 180
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 aagaagccct gctcc 255

<210> 833
 <211> 255
 <212> DNA
 <213> Ratte

<400> 833
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 ccacaaccgc gtgag 255

<210> 834
 <211> 255
 <212> DNA
 <213> Ratte

<400> 834
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<210> 835
 <211> 255
 <212> DNA
 <213> Ratte

<400> 835
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 aagcactggc ctcca 255

<210> 836
 <211> 255
 <212> DNA
 <213> Ratte

<400> 836
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 ggaccacgat gaacactcta attctgacag tgtccacact ggctatgagc ccactctnctt 120
 gctcgaggca ctnaatggac tacgggctgt ctccccagct atcccatcgg ctccccctcta 180
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 tggactcgat cgaat 255

<210> 837
 <211> 255
 <212> DNA
 <213> Ratte

<400> 837
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gagacccan cttctcagcc tgactgctcc aatcagacgg aggctgcctc cagtcacaca 240
gaagatacct ctgct 255

<210> 838
<211> 255
<212> DNA
<213> Ratte

<400> 838
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gcttgagcac tgnagagctt cacatttncc cgaatcactc anaaaagnat aacattccct 180
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ggcttctcac aggtt 255

<210> 839
<211> 255
<212> DNA
<213> Ratte

<400> 839
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cttccaagtg tcgttaagta atagcaaata ttccagatca ttggctgtga actttttgcc 240
tggaattcct gagac 255

<210> 840
<211> 255
<212> DNA
<213> Ratte

<400> 840
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ngagaagaga ggctaagtcc cagggaggcc agagatagga angctggncg ataggaggaa 240
cccaaagagt caagt 255

<210> 841
<211> 112
<212> DNA
<213> Ratte

<400> 841
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aaagcanaaa ggtaaaggaa gaagagacac aagaggggan agacctgann gt 112

<210> 842
<211> 255
<212> DNA
<213> Ratte

<400> 842
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cgggtgcatg tgggtggatgg tgcttttgna gcagctagac agtgaaaagtc aggaaaaggcc 240
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<210> 843
<211> 255
<212> DNA

<213> Ratte

<400> 843

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gagaccagaa actgcacagg gaattttcct aaatttcaaa cgacttttgg aattcaacca 120
agggaaagttg ccttttgctg ctgcacagat tggaaaactcc tttagaaatg agatctcgcc 180
ccggtctgga ctgatccgag tcagggaatt cacaatggca gagatcgagc actttgtaga 240
tcccactgag aaaga 255
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<210> 844

<211> 255

<212> DNA

<213> Ratte

<400> 844

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ataccccaana aggccaggaa gcccagata gggatgaggt atacacaatc cccaactctc 180
tgaagcgaag tgagtcccca cagctgactc agatgctttg tcattgcatg aacagcctca 240
gcagattgcc atcaa 255
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<210> 845

<211> 255

<212> DNA

<213> Ratte

<400> 845

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ggggccacca tatgggctgc ctttgctca gctctattgn cgagttagcca actctgagtg 240
cctgctttcc catat 255
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<210> 846

<211> 255

<212> DNA

<213> Ratte

<400> 846

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acnccaaacc tanagntgaa atctcaccgt tatttccatg ctgtcnngaa cagngacaaa 120
gntaaccngn ngctncattc ngncancaga cctaannttt tacagctaac ttacttttnac 180
agnnntngat naaatagntn cennntacaa tgnncaagg n ttttagtcnc taaggaattt 240
aaatggnatc ttgaa 255
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<210> 847

<211> 255

<212> DNA

<213> Ratte

<400> 847

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ttccctcttt aatggtgctc tagatcacag ccattggccat gaagaccatt gccatagtca 180
cggagccaaa catggagggt cacacagcca tgaccatgac catgtctcatg gacatgggca 240
cttgcatccc cacga 255
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<210> 848

<211> 255

<212> DNA

<213> Ratte

<400> 848

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gngtagtctc	cccaagtcc	tgatcctcat	actgncgcct	ncctaacgcc	ccatcgtcaa	180
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<210> 849
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 <212> DNA
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<400> 849						
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<210> 850
 <211> 255
 <212> DNA
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<400> 850						
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<210> 851
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<400> 851						
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ggaggaaaga	agataacttg	tgaagaagct	cctccagatc	catgctctaa	ctgaagggga	180
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<210> 852
 <211> 255
 <212> DNA
 <213> Ratte

<400> 852						
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tgccagatag	agagcctgag	acaccaggcc	actctccaca	aactagatac	atttaaaagt	180
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<210> 853
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 <213> Ratte

<400> 853						
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caatgcccaa	gtcctcacct	tcacaatcac	atcctagaga	acgataagtc	agaacagaa	120
tgctctggcc	agggatattt	tatgttgaca	aaatattgtt	gcaatatttg	aattctccaga	180
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gaggtagtct	acatt					255

<210> 854
<211> 255
<212> DNA
<213> Ratte

<400> 854
acccttccag agctgcccta cagaaaggag atggtgagag ctgatctgat taataagaaa 60
gttggaatca aagagactcc tgcaaactct gccaaactcc tgaccaggat gtgtctgaag 120
tcagaagtca taggtgatgg caatcagatt gaggttgaaa tccctccgac cagagccgat 180
gtcatccatg cgtgtgacat tgtggaggac gcagctattg cttatgggta taacaacatt 240
cagatgactc tcccg 255

<210> 855
<211> 255
<212> DNA
<213> Ratte

<400> 855
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aaagcaggct gcttctctcc caaagtcact cgtaaagaaa aggtccgaag atctctccgt 120
ctgaaattta gtctgaggaa gaacggagat tcaaattgat gttctgtcat caatagacat 180
gaaatgttg gtcgacgact agcgaatcag cagaatctaa aaaataggat tgagtctgta 240
aaaacgggtc tgctt 255

<210> 856
<211> 255
<212> DNA
<213> Ratte

<400> 856
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cccaacagca aacaccgcca aggtcacatc aatagggagg ctcatgtttc cattggatgc 120
cttccactct ctgaaatagc gctctgccct ctgcacgcag agctgatacc tgtgcacaca 180
tgctaggagt aagagctggc tcttgagcat cctctctgag acagagcctt catctgtcca 240
ggtctgctta ttaat 255

<210> 857
<211> 222
<212> DNA
<213> Ratte

<400> 857
actngntaca gttcagtgtt gtgggngggtt ggttttccctt agcgtttana atagccatca 60
ttgtcctgca ataggcagag ctatcacgtc caggaaaaat gaggggaacc agaggcagcg 120
ngagatccaa atacagnatt caaaggtaat tggncacgtg gtgcctggng aggaggaagg 180
ggatgatact ccagggntag ccatcttccct tcgggggtgt gt 222

<210> 858
<211> 255
<212> DNA
<213> Ratte

<400> 858
atggccaggc ttggctccag gtaggatgga tttcactgga agcgggagct tgctccctct 60
gggactctga atgggcttat agtcaagacc tttaatcatg ctaagagcca gctccagttt 120
gtggttacac aaaagctgtg gagtctgttc ctcagaatag tagtcacact ttacaagttc 180
tttcgaactt ctctccgttt cctcatcttt ctggtgtgga ggactagcct ggacactagc 240
atccagagat tccac 255

<210> 859
<211> 255
<212> DNA
<213> Ratte

<400> 859
acccttattg gatattctcc agaaggaata ccgctctatc acttcatggg tgatgctttt 60
cagcacagct ctcagtcggt ccctagggtt attaaggact cactgaaaca gattcttgag 120
gagagtgact ctaggcagat cttttacttc ttgtgcttga atctgctctt cacctttgtg 180
gagttgttct atggagtgtt caccaacagt ctgggcctga tctcagacgg attccacatg 240
ctctttgact gctcc 255

<210> 860
<211> 255
<212> DNA
<213> Ratte

<400> 860
actccataat ggatgtgagc cagagtgaag gcagcagtga gtgtgttaaag gagaacactc 60
tcaaggcggg aggttgttgt gcctacgatc acagttgcca cgaccaagaa gagaggaagc 120
agcaaccagt tcaaagtgtg gcaccgtgtg ctgctcattt ggcaaacgat tagctgacat 180
gtgatattgg caaaagctgt tccgaccatg aagtagaata ttctagggtg catttctaaa 240
atatctgaag gtgac 255

<210> 861
<211> 255
<212> DNA
<213> Ratte

<400> 861
ngnaccngan acactgggag aagacacata tatggtaaag cnggcactcn gagctggcta 60
ctcnacaata ganctgaagc acaggcanc ccatatgggtg cccctatccg nggaacttna 120
ttaggancta gngcctnana anctgctncc acagattnca nanagggcct agctgaggnc 180
agngaaacac aaggcanggg ccctgaagcg gngctgncaa aagcctenga agctaccgtn 240
tgnnccnanc atagc 255

<210> 862
<211> 153
<212> DNA
<213> Ratte

<400> 862
acctaccagg tgaaaccttt gtccctgggca atagcctgac gaggtccttg gagacacact 60
cagacctgat ggactctgcc ttgaagcctg ccaacctcgt cagcacgtcc cagacctcc 120
ggactcctgg ctatcgggcc ttgcttccct cct 153

<210> 863
<211> 134
<212> DNA
<213> Ratte

<400> 863
acaggccctg cccagtgttt gtccctgaac cccccacctc catagctgnt aatggctgaa 60
tgaggaaaagt tctggaatat gatgcttaaa taatgcatta tatcccagtg tgatgtgtgc 120
tttggtcgt tagt 134

<210> 864
<211> 255
<212> DNA
<213> Ratte

<400> 864
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atcgctggct gacagatctg aaatggaaatg tctccaatgg cagtgtctcc cttctgcct 120
cccttggagc aagccagtga gcagctgccc tgccggctgt ggggggtggc acctcaggca 180
gccatcttgg ccagctgctg ttctagcttt gaaatgcgct cgtcttgatt gcagattgtg 240
tcctttatgg atttg 255

<210> 865
<211> 209
<212> DNA
<213> Ratte

<400> 865
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ccactgccct aaagagtgtg cgggggaaga ggtagtggct ttcccactgg ggcttctcca 120
ggggtttctg tccttncagc tgcacgaact tcatgagcgt ctcgagggcc agttccttga 180
cctggaagga gggatgggtc aggagttcc 209

<210> 866
<211> 46
<212> DNA
<213> Ratte

<400> 866
gcaggtggcg cgggtgcccgg ctgagcgcg gaaaccgaga gagcgg 46

<210> 867
<211> 255
<212> DNA
<213> Ratte

<400> 867
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tgctgcgcac gcagaaggcg gacccccagg tctatgagga acttttccagc tatgcctgcc 120
ccaagtctct gtcgcctgtg gtgcctaact acgacaacgt gcattcctaac taccacaaag 180
agcccttctc gcagcagctg aagggtgttt ctgatgaagt gcagcagcag gccagctct 240
ccaccatccg cagct 255

<210> 868
<211> 255
<212> DNA
<213> Ratte

<400> 868
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gggtttgaat tcacottaga agggacactg tattcaaact cacgtcaagg cactgtgtgg 120
acgagctgta gccagaactg tcaataactat cttctaactt acccctggcc agaagggttc 180
tacagacagt gattctaggg tgagaactgt cttagtgtgt gcagtatcct gcataaaaaga 240
acaaagctgt catca 255

<210> 869
<211> 255
<212> DNA
<213> Ratte

<400> 869
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tgtgcagatc tccaacgatt atgaagccaa acttgctatg ttatcttttag ctttggaaaa 120
tgcaaaagct gagattcaaa gaatgcattc agaaaaagac catttcgaag actccatgaa 180
gaaagcattc atgaggggag tgtgtgcatt aaatctggaa gccatgacca tatttcagaa 240
caaaaatgac gcagg 255

<210> 870
<211> 255
<212> DNA
<213> Ratte

<400> 870
acagaaagtg cgtgtggtaa tcggcataga caaagaagtc atcgccactc tggttgtcca 60
gcaccgcatt gctgttctgg aagtaattta acacactcat aatgggtgcag ttcttgttgt 120
atggagagag gggggccaca cagatgtcct gaagtgtcac gggttcattg ttataggacg 180

cagtgatact ttcaatggcg atctgtaagt ccagaacctg gtgcagaatc tctttgttca 240
atggaggccc gaagg 255

<210> 871
<211> 255
<212> DNA
<213> Ratte

<400> 871
acaaggcctg cttcttcgga gtgtcatcgt cctgaggtaa ggaggagcca agcttttcca 60
tgtattcaat ttcataggag tttctgtagt ccagctctgg ctggcaagaa tcttttctgg 120
gtctttgccc cctagggtca gtattctcca aggcaagggtg tgggtctggc tggccactga 180
gttgcttacc ctccgagggt gaattgaatt tggctctcatt tacaaagtta gatagggtctg 240
agggtgcgg gaaat 255

<210> 872
<211> 255
<212> DNA
<213> Ratte

<400> 872
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tgtgggttct gcattttttaa ggataagaga gagaaagagg ttgggtatag taggacaggt 120
tgtcagaaga gatgctgcta tggtcacgag gggccggttt cacctgctat tgtcgacgcc 180
tctttcagtt ccactgcctt tatgtccctt cctctctctt gttttaactg ttacacatac 240
agtaatacct gaata 255

<210> 873
<211> 255
<212> DNA
<213> Ratte

<400> 873
acataaaaagg accccataca tcatgctggt aaaataggac attcagaatg cacacacttc 60
tgttttttct cttatgtgat aggtagattc ttaatgttaa gcatttttat tttgtgattt 120
actccatttg taacttaata gtcttggatt taaatttaca atttgccctg ttttgtattt 180
tgttttaatt tggaaaggat aattggaagt taactgaaat aatggaagtt gaatttatac 240
tctgcatttt tatat 255

<210> 874
<211> 238
<212> DNA
<213> Ratte

<400> 874
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aagtccaccc cccaccacca ccacacacca cacacacagg gatgctctgg gaagcccgtc 120
tcgtcaccaa ggacctacc tagaaccata agaagggcag ttgccactgg agctgcctga 180
ggtaggacca ggaaacccca cttagtgtnc ctgcccgggc ggccgctcga aagccgaa 238

<210> 875
<211> 255
<212> DNA
<213> Ratte

<400> 875
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aagaagtggc tacaggagca gaggtggyac atccgcyggc ggccatgtgt agagcagctt 120
tggagtcccc tagaaaatag catcatcnnc gagccttnat cctnctngt tgggtggacc 180
cacttgatcc caagactctg gcctttaacc ctaagaagaa gaattatgag cggcttcaga 240
aagctctgga tagtg 255

<210> 876
<211> 255

<212> DNA
<213> Ratte

<400> 876
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ggctctgcatc tggragtagt tctgatcgct cactctctgc cactcccca gcaacaagga 120
atcattctgg atctcggaca cctcctgtag cacttagtag ctctagaatg agctgtttta 180
gtcgtcctag catgtcacca actcctcttg accgatgtag atcacctgga atgctagaac 240
cccttggaag tgcta 255

<210> 877
<211> 254
<212> DNA
<213> Ratte

<400> 877
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tcttcctgta gtttctgtcg tgcagctgac agctcttgcc cttgtctcct ccgctgcttc 180
tctcgttcta aagctctctc ctctctctt tcttcacgtt cccgctgctt ctgcgccaca 240
agttccaama ttct 255

<210> 878
<211> 254
<212> DNA
<213> Ratte

<400> 878
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aggctcagaa ctccagcmat gcgcnnnaac tccttcagyc cttctaagcc aggagtctca 120
gggctgtccg gaggcagctc tgtcaatgga ggctgcctct gcctgttaca cactgctcca 180
cgaattagtg aggtcttctc taccacctca gcttctcttc cagccagcac tgtccacacg 240
aggaccccaa aact 255

<210> 879
<211> 255
<212> DNA
<213> Ratte

<400> 879
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ggaaatgggt gtggctacct ccacctgctt tcmcgtgtma camgcctgaa gggctgctta 120
gggcttgata cagggtcatt gtgagaagtg tgcaccatga ctcaggactc aacctggcat 180
gcagccacc caggccatcc cacacatgta tgtgacatgt agacagacac ctgccattgc 240
ctacacgcta cctg 255

<210> 880
<211> 255
<212> DNA
<213> Ratte

<400> 880
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accacggcgm cmcaccmcyse mycgcnncan nccccanngg ccacargygc tccaggcaca 120
gctgcaagtc ctctcctgag cccgtaagaa agggaccac agtaaaactga ccatgctgca 180
tggtggcccc aggcactctg gggctgatgg tcctagtata agataaggct gcctcagacg 240
tccttgccaa cccaa 255

<210> 881
<211> 254
<212> DNA
<213> Ratte

<400> 881
cacatgasgc catgagcacc tcaggggtcc tcttgggaatt cctcatctt cactgtgtcg 60
taaaaaamrc agawgarawt gcaannnnngc nccnccaccn ncnnnnnnaa aagagttgcc 120
cgcattggcgc tctctctctc cgaataggcc agaattgtcc ttaaggactt tctcaggtgc 180
tcttcattga agtctgggtgc tttgcctacc aaggatgccca gtgccatggt tacctgcacc 240
tttactcttg caaa 254

<210> 882
<211> 255
<212> DNA
<213> Ratte

<400> 882
accaggaccc tgctgcagtt tcttttgtca cgaattttac tataatttat gttaagatgg 60
gctatctctg cgggccagkg gnnaaacaat gngagcgcgg cccctacgct tcttactgcc 120
atggaaggga aacctcagcc acagcaggac agcttaatgc atcttttaat accaactctt 180
tttcacatga aatacccggc tgaatcatcc aaatcagctt ctccatttaa tcttgtctgag 240
aaaccaaaaga ctgtg 255

<210> 883
<211> 255
<212> DNA
<213> Ratte

<400> 883
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cggctctgcat ctggaagtag ttctgatcgc tcacgttctg ccactcctcc agcaacaagg 120
aatcattctg gatctcggac acctcctgta gcacttagta gctctagaat gagctgtttt 180
agtcgtccta gcatgtcacc aactcctctt gaccgatgta gatcacctgg aatgctagaa 240
ccccctggaa gtgct 255

<210> 884
<211> 255
<212> DNA
<213> Ratte

<400> 884
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gttggtctgas aaasmgaga gatasamaca gaagaggggg agtgaatgga cccagtgggc 120
tgtcttattt caaagtgggt gtgtatgatt cttatactac atctatatag agatattaag 180
gcoctctgag ttaaagaaac tsycctcacc ccgtgctggt cactcatggt tgtaaaaatt 240
gttccatgct aacat 255

<210> 885
<211> 220
<212> DNA
<213> Ratte

<400> 885
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cctgagagag ttctctmstt hcmatnanga ccagtatggt gtctccctct tcaacagcat 120
gcgccatgag attgagggca ccngcctcc gcagcachnh tgctctggcg caaggtgccc 180
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